Higher Education SUPPLEMENT

Mr Millan backs down on Scottish colleges

Mr Brace Millon, Secretary of State for Scotland, last week backed down from his controversial proposals to cut teacher admention numbers, re-

his decision on three more.

In answer to a written parliamentary question from Mr Williom Russ, MP for Kilmarnock, he minimized that he model allow are intake in all Itt Scottish colleges this armon, though the total of sindents admitted would be slightly less than he preciously envisaged.

A new consultative paper to re-place she first, much-criticized one, says that Craighockhart Callege should be saved by being given some at the sundents who would otherwise have gone in Natre Dame, Scotland's other Roman Cothulic

Callege.

Mr Millan will look at the pos-ability of diversification and after-native uses for the other three col-leges threatened with closure and

The paper recognizes the diffi-culties involved in transferring Dim-fermline physical enhantion college to Dimdee and has culled for a de-tailed study of this, a tribute to the college's well-informed compaign. However, alternative uses for the Dimferotline college in further or

Physics BEd

hy Clive Cookson, Science Correspondent

is 'below

standard'

Steady decline Professor Dahrendorf Sugger in teacher

Abam 9,000 students will be admitted to Initial neacher training to the Government's latest proposals.

A further 500 will be admitted to special one-year coarses in subjects such as muthematics and science and another 5,000 to postgraduote one-year coarses.

The further soluted to postgraduote one-year coarses and science and another 5,000 to postgraduote one-year coarses.

The further soluted the procession of the postgraduote one-year coarses.

The further soluted the postgraduote one-year coarses and science and another 5,000 to postgraduote one-year coarses.

The further soluted the postgraduote of profits the further process of profits t higher education, muse training, or sport are to be explored.

At Craigle College in Ave and Collegalar Park in Fulkirk alternative uses for all or part of the buildings will also be investigated. In Ayr Strethelyde Regional Council, and the Ayrshira and Arrangell and the Ayrshira and Arrangell and the Ayrshira and Arrangell and the Ayrshira and Arrangell.

in the Gurernment's Advisory Committee on the Supply and Training of Teachers vesterday, are in line with plans to reduce the teacher

training system natable universities to 45,000 places by 1981.

If the figures are projected farwards, there should be about 27,000 initial teacher training places in the colleges far three-year charses and about 3,600 far funr-year BEd courses. About 10,000 of the 45,000 places are fur in-service education.

The paper lays greater stress an in-service training than the original document, in respanse to criticisms from callege lecturers hat says that aelther the development of such training par diversification will asset that property stress and building. There will be concern in some colleges that the projected total does not appear to make allowance for the 2,010 or so students who can

The proposed intake for the colleges for the attraction is reduced by a total of 2.40 places. The final decision on the future of the cola total of 2.00 places. The final mitted to individual colleges in 1978 decision on the future of the colleges will be announced later this makes its limit announcement about

Germany and America needed and trained oronpawer, but it could not be supplied by the growth of higher education.

Universities could not satisfy all the practical needs of prodessions and there were better trays of bridging the gaps than by expanding antiversions. the practical needs of prefessions and there were better trays of bridging the gaps than by expanding interestries.

More and more jobs required not remain an empty more training. There was an in-

new multiversity concept

nur inn specialized. Professor Dahrendorf attacked tho

Professor Dahrendort attacked the lifest that universities should be seen as part of the training process for professions and jobs. The tico were separate, he said.

Not should universities be expanded in printote economic growth. Advanced countries such as Britain. Germany and America model many

Germany and America needed mare

White was needed as

tioned ninesecuti century notion in them.

What was needed was a new concept at a outliversity, with a rariety of courses, both practical, theoretical and post-experience, for a variety of people, it would provide opportunity for reaching and rosearch in the old sense, and a high degree at training, which was not use sosciulized. versities as centres dian research was Inappropried present Institution, the providing education keeps

by Judith Judd
A campaign to win the same proportion of higher aducation places for the colleges and polytechnics as for the universities in being mainted by some local anthorities.

The Gaverenent is expected to announce some how the 40,000 additional places allocated for higher education to 1981 will be divided, fears are growing emeny chief education of the local authority sector will be an small root in will threaten the survival of some furnier calleges of education which need audents for diversified courses. of education which need about its for idiversified courses.

The indications ore that the illun's share of the proposed 560,000 places will go to the universities and the University Grants Committee has written to them suggesting that their total will be about 295,000. The present figures ore 273,000 in the independent and 247,000 outside tions, they would hat all

The Concell of Local Education Authorities' higher education sub-committee has suggested to the Government that the universities should receive 310,000 places and the pub-lic sector 250,000,

Campaign

to increase

poly places

Part of RSG grant may be the Addoctor's Education of Containing the Control of the Control of Contr

Government urged to start full time overseas students review

THE TIMES

Higher Education
June 3, 1977. No. 293

SUPPLEMENT

Price 18p

The call will be made in a confidential draft document, due to be circulated at noxt week's Common wealth conference and prepared jointly in the last month by the United Kingdom Council for Overseas Student Affairs and the Council for Education in the Commonwealth. moniventh.

It will argue for a standing body made up of representatives of orgenizations concerned with overseas students and members of interested Government departments, including the Department of Education and Science, the Ministry of Overseas Development, the Foreign and Comparison of Comparison and Comparison Development, the Foreign and Com-nionwealth Offico and the Depart ment of Employment.

The document, which is being drown up in consultation with the British Council and the Commonwealth secretariat, will maintain that a recognized commission is needed to ensure better coordination between Covernment deput

by Suc Resil

The Government is to be urged to establish a standing commission, with policy-making and advisory powers, to keep overseas student affairs under full review.

The call will be made in s confidence, it is constituted by preparing an initial distribution plant was ser up, which has since been hurnedly preparing an initial draft of the document outlining the standing commission plant great to full review.

Ludy Picketoru, Usison officer for the CEC maintained the commission plant great full review.

Ludy Picketoru, Usison officer for the CEC maintained the consistency and forecast full review.

Ludy Picketoru, Usison officer for the CEC maintained the consistency and forecast full review.

Ludy Picketoru, Usison officer mission would identify and forecast full review.

The Government is planning to solutions, the Government is planning to reduce the number of overseas students and devolop solutions.

The Government is planning to full review.

Secretary of State far Education and Science, if the Cammonaweith students are foreigned to constitute the constitution of the constituti

and Science, it the Cammonwealth conference proves an effective "sounding board".

The latest fee increases, and the prospect of further rises for ovorseon students, are known to have along the UKCOSA, the British Council and the CEC. They are entermed over lack of coordination sames laterested parties by tion sinning Interested parties in Whitchall departments only would nisalon scheme from politicians on

concerned with aversons students in

concerned with averscas stitlents in the past, will not formotly receive the trorking party's final proposol alocontent until later this year.

Membership of the standing bady has not been decided but, if established, it will, ineviably, includo representatives of the UKCOSA, the British Council and the CEC. An independent chakman would also he appointed.

More and more jubs required an invalidation and invalidation of the committee docided to the Association of Metropolics and the field that the find the field to the Association of Metropolics and the field that the find the field that the field the field that the find the field to the Association of Metropolics and the field that the field that the find the field that the field that the find the field that the

The Government is planning to reduce the number of overseas students from the present 80,000 to between 60,000 and 65,000 as same os is feasible. When plans for the increase in tuitlest fees were disclosed last December the DES maintained that numbers had risen from 31,000 in 1967-68.

British Council figures shaw that when all overseas students, includ-ing for lastaneo traince nurses, are taken late account there are fewer from the Commonwealth than other tarm of the world. Bur Com-manivealth students, it claimed. nisdo up the largest proportion from the developing world.

In the lust ocademic year the number of oracsens students in further education calleges rose by more than 6,000. Universities took 3,560 more lareign students than the previous year and polytechnics

2,99d.
Twenty five per cent of all foreign studeins in Britain study in London. But a recent attention by the Inner London Education Authority to introduce a controversial oversens students quota, system in the five polyteclinics: It funds was opposed by the colleges, Many feered that some courses, partletterly times concerned with engineering, scionee and technology, would be, forced to close through tack, of sudeous if the foreign recruits were barred.

V-cs oppose

SISTERS

Polytechnic profile Sue Reid visits the North

of Capitalism, 17

Contents

Max Weber

East London Polytechnic which has three sites and over 7,000 students, 9

Donald MacRae discuss

changing evaluations of

Protessant Ethic and the Spirit

Weber's classic. The

Buckingham principal

David Walker talks to Alan Peacock, next principal of University College at Buckingham. about the reasons for his

Plague history

L. A. Clarkson reviews three new books on the history of the plague and. other diseases, 18

Student incomes

A working group of vice-chancollus has come out strongly against the ldra of Special Institutions for Sciente and Technological Education and Research (SISTERS) as defined in the recent report from the purilementary Select Continuities on Science and Trehology.

In a report published this week on universities, links with Industry, the vice-chancellors say the places A survey by Peter the vice-chancellors say the educa-tion and training of graduates for injustry must cover the full ronge of subjects appropriate to the aceds of managers and technologists among self-supporting undergraduates, 4

boday.

"It would be detrimental to a university to have its functions marrowly restricted by charter to training and research in edgineering and opplied sciences", they say.

But some members of the group fovour certain existing institutions being developed broadly along the time moreography into Robbins committee, fieldliked in feet of developments since 1953. The committee outlined a broader coucent of SISTERS, saying that such institutions would concentrate on science reviews, 21-25

play The English Department,

interaction of the proposition o

New look for London museum



In the current issue al the Institoto's journal, Physics Buillotin,
Professor Dophue Jackson of Surrey
University, chalicotae of the mombership committee, and Mr C. A.
Crofts, hoedmaster of Choriton
High School and chairman of the
working party, expressed concere
that BEd graduates "whose educetion simply does not fit them for
advanced work" are teaching sixth
form physics. fuscuois huve a major role to play

advanced work" are teaching sixth form physics.

The implications of the survey, they say, "should be a matter of concern to all members of this institute, and particularly to industrialists who appear to be increasingly auxious that their technician entrants and eraft apprentices should have been exposed to some physics whilst of school.

"We are concerned ulbout the

cll ond the Ayrshire and Arran Health Board will be approached

to discoss further educadan ar muse training at the college. Similar

Duadee, Hunilton, Moray House, Jordanhill and Naire Dame—should

remain open, the paper sive lut some of their recommundation should

Whitever happens, there will be redundancies and Mr Millan is ask-

ng each college to calculate what cademic auff ir will need.

all the present sraft and buildings.

teacher crlucation.

It may not be completed this

Mrs Williams also opened

study sclence, Mrs Williams total Natural History Museum staff and Buests when she opened the new Hall of Human Blology on Tuesday.

The Secretury of State said thor the 1,000 square metres exhibition, with its exciting working models, films, games and other "interactive davices", was much more likely to sneeceed in putring science across to young people than the old-style Natural History Museum—which museum the name the water of the sonial in Washington.

As Mrs Williams also opened the Schouldnisters/Italium of Women Teachers, which reveoled that 80 per cent of the £7m allowed in stonal sterms and the locality meaning personal sterms and the first states of a state the impact library and policy of descionness and visits showed not supprisingly, "that colleges of education are in a sinte of dreadful intertainty. Many colleges have lost reputable physics departments and in a number of places physics has been absorbed into physical science activities with vonsidarable, dilution of the place of departments are far from certain of the place. The ramaining physics departments are far from certain of the place of the continued existence.

Therefore the institute feels that valves back over approximately holf of the university and polytechnic physics departments have an increasing responsibility to provide specialist physics toachers.

Mr. Maurice Ebison, tha institute's education of the party, amphasised that the survey related solely to the physics content, of the BEd, soe the working party, amphasised that the survey related solely to the physics content, of the BEd, soe the way it prepared students to peace. risits remodel the comit museum in the lution," a forestate of a revolute the attainments of school-leavers, to the preparation of the DES said: "The RSG arrange working life.

Worcester loses

Professor Welter James, former deen of educational studies at the Onen University, is nor to income principal of Wircester College of Higher Education in September. In an operacted move, he has withdrewn from the post to which he was epuolnted lost December.

Mr E. G. Pelrson, present principal of the college, who leaves in the anoman, said this week that the doclaton had come as a "greet shock". He denied that it was connected with the work, standing or status of the college. Professor James was not povilable for commant.

Prafile of North East Loads

new principal

F. G. Edwards, vice chancellor for compromise. Breaker and University, is to retire been well on the way to a system which included all the colleges doing teacher training when the Government amounteement was a property of Technology since 1957, the argument of councillors who went Bradford College to lose its teacher training is that it should



Improving the training of managers would have little effect on performance until saciety's values shift back towards favouring weolth creating and individual opportunity, Mc Nigol Forman, Conservative MP for Sunon, Carshalton, told a conference at the Anglian Regional Management Centre last week.

Management Centre last week.
Successful menagement development—tha conference themedapeodsd on sweeping away the Bricish obsession with levelling incomes down and building trade unions up to the boardroom level, Mr Formen said. A fundamental problem was entitudes towards ecocomic growth itself. The present British climete apposed weelth

British climete apposed weeking creation.

Other speakers at the conference, offer speakers at the conference, offer speakers at the conference, ther education lecturers and working managers from industry and commerce, were less controversial.

Mr. Brion Littlewood, denu of the centre, concantrated on the need to educate managers to the opportunities ond constraints of the next placede. Among these ha listed the

of the economy and its implications for management truining were also mede by Dr Ron Johnson, director of training at the Training Sorvices Agancy. The modern age was one inegect of middle level men and women.

As a pructising industrial executive Mr Floyd and some doubts about management development. He said: "We are still struggling to find out what our job is."

he sald, and good management training would encourage flexible antithe imaginative fluir needed to snot

Dr Johnson listed the areas where udditional training was needed. Many managers locked the ability to control cash flows adequately; and there two "your "nepalling ignorance" about financial iosthods. He expressed surprise et how little social sciencs knowledge hall been translated and made intelligible for practising manegers.

A depressing picture of the gen-arel level of morala in British in-dustry was painted et the confer-ence. Dr Johnson made the point

to educate miniagers to the opportunities ond constraints of the next flecade. Among these had listed the expansion of third warful commerce, the growth of trade union participation in firms, and the switch of national resourcee back towards productive industry.

Monagement, Mr Littlewood emphasized, was e set of skills needed not just in industry and commerce but ecross the public sarvices from polytechnics to the Henlth Service.

Predictions for the future shape



Open day et Leeds University inst week attracted 35,000 risitors. There were concerts from the music department, an exhibition on contemparary Chine, and displays of potholing tackle and high altitude instrument bolloons. Mr J. A. Smith, of the textile industry department, here demonstrates a double jersey circular west knitting machine.

Manpower, not money as basis | CET to look for economic planning

Where the DoI's money went

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sities.

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after CAL

The Menpower Servicas Commission could he the Trensury of the future. Dr. S. L. Bragg, cylice-chucallor of Brunel University, writes in his ennual raport for 1975-76.

Future aconomic planning should be on the busic of expected manpower and not on expected money, he says. "The pound atording is a varieble quantity: but peopla are constant and can only be shorted or retrained or moved from one job to onother at a finite and rether annil rete."

A civil servant could strike fim off the cepital programma for university construction and add it to the budget fin social acevicos to belience his accounts. But that did not turn a buildar's labourer into season way, out, and stopped providing places for studeous on pandwich connecs and for new graduates.

But such people still exist and need training, indeed they are an essential investment ane has a result of our representations the position will be improved next year."

Dr Bragg criticizes the gap between those who make lews and those lews and those who ma

"Our stretegy wes end is occured human beings", he said. "Taking a group like chemists for example, they learnt far more about innovetions in their ereas by meeting and discussing them, then by reading about it in heating journals."

NDPCAL has so far funded around 20 projects in universities and polytechnics. This senate of Leeds University has already approved three by civil aircraft (\$20m) and continued tennics. The senate of Leens University has already approved three tenured approintments for CAL, while at Brighton Polytechnic a permanent post has been agreed to after the progressime comes to en

while at Brighton Polytechnic a permanent post bee been agreed to appear the programme comes to en and.

Newcastle gets new Clinical post

Holst Moor w until 28th or 14 nights

or ring your

The British Heart Foundation hes given £80,000 to Newcastle Univeration or ring your

or ring your

The British Heart Foundation hes given £80,000 to Newcastle Univeration to fund a clinical lectureship. Dr Ronald Campbell, a British Heart Foundation research fellow and honorary scattor regletter of Newtwishle General Hospital; is to be appointed to the post. The foundation has elready funded a chair of cardiology, to which Professor Desaided Julien was appointed io October, 1974.

Centres is taking Shape

The success of Birminghom's with development at Seelly Oak has laid the foundations for a national notwork of similar centress, according to a report published last week.

The centre, financed by Oxfam, was set up a yeor ago to provide educational materials about community change and oversees development for reference and sale.

In the first sumual report the centre's project leader, Mr Scott Sinclair, says that new centres are beginning to take shape. But he warms: "I see considerable darger of the development professional materials as development of cardiology, to which Professor Desaided Julien was appointed io October, 1974.

Why librarians are not neutral

nentral, a conference on information and public policy was told ut the school of librarianship, Poly-technic of Nurth Landon, this week.

Librarians can never he politically incuttant a conference or information end public policy was total ut the school of librarianship. Polyvechnic of Nurth Landon, this week.

Dr. Jahm Dearbure, of Sussex:
University, a sindent of rho policy-making pracess in local government, and the instance of the Children was in point in climas with objective information to subove them to make hester decisions.

Because publiciants invitably select information supporting their own pushina, there was no point in committee to Whitehall or to the town hall, he argued.

The conference organized by Mr. The Association of Special Libraries and Information Bureaux (Asilb's) sociol science information group, discussed whether likerolans ossistend the political process by providing objective information. Mr. Russell Bowden, of the Library Association, put the view that the business of librarians ivas to help polityrakers.

Dr. Dearlove dissented. He criticated recent statements by Milams, Secretary for Education, unique generated to be a continued to the research bearing not their processing the research bearing not their proce

Librarians can never be politically

the research beering nut their preeonceived ideas and ignored any structured and structured and ignored any other work. Index."—TES. Universities auch es Suasex, attacked by Aberdeen University'e stress sudies and the study of ecolies sudies and the study of ecolies and the study of ecoits annual report for 1977. While industry and commerce complained they did not reciave their fair share of graduates, their fair share of graduates, their recruitmant procedures appeared to be aimed at a tiny elite whose vir-

Contract ph Educating a student at university costs for in-service £265 pa more than at polytechnic

training

by Bert Lodge

Official figures published this week show that the cost of educations a smooth training that a college of the anison of the staff involved by local authority. They rereal this week provides one of the first studying at universities and colleges by local authority. They rereal the surface of all the staff involved interesting, if by now well known, mershe College of the first studying at universities and the major of the anison of the first studying at universities and the major of the first studying an universities and the major of the first studying at universities and the major of the first studying at universities and the major of the first studying at universities and colleges by local authority. They rereal this week provides one of the first studying at universities and colleges by local authority. They rereal this week provides one of the first studying at universities and colleges by local authority. They rereal this week provides one of the first studying at universities and colleges by local authority. They rereal this week provides one of the first studying in universities and colleges by local authority. They rereal this week provides one of the first studying in universities and colleges by local authority. They rereal this week provides one of the first studying in universities and colleges by local authority. They rereal this week provides one of the first studying in universities and colleges by local authority. They rereal this week provides one of the first studying at universities and colleges by local authority. They rereal this week provides one of the first studying at universities and colleges by local authority. They rereal this week provides one of the first studying at universities and colleges by local authority. They rereal this week provides one of the first studying at universities and co

Working on a project sponsored by the British Ellrary to estimate all those who might make use of educational information, the team

	much emphosis on tacher, in a school might be a pound that it might new less the Council far Nadona he Arvards to adopt a man role. Mr Porter was making of the less thome Counties region he less thome Council for Technology.	Science the net cost degree-level work in fur tion colleges was nearly less that in the p	ever, this total hat teaching a tually cost up to main differ the two sectors was in the monacadenic equipment. Is prepered by Educotion and further educocy 1800 a head polytechnics, and worcester upon the more example as and worcester until the more example as and particular on such more example.		dicational Louden and arcas, demic year in Education ut of every 1,00 every 1	emic year 1974-75 the Education Authority to fevery 1,000 young 18-19 age group a full or attidy at university. Borough of Borking every 1,000 received hornnghs with low Newham, Waldhum and Enfield. e take-up of owards ducation were the ire and Humbersida, and East Anglia, Pacts, such as Hereford and North Yorkshira, inctropolitan districts and Stockport, were		Working on a project summored by the British Library to estimate all those who might make use of educational information, the team have discovered that more than 750,000 people in government, public administration, colleges, schools have a stake in the subject-matter of education. According to the Department of Employment, the people with some educational connexion total 1,700,000, although this figure includes meals staff, clerks, and so on. The most recent estimate given out trainers. Statistics of Education Vol 5 1975 Finance and Awards, HMSO £2.70. Personnel in Education and Training by D. Hounsell, P. Payne and I. Willett from Centre for Educational Research and Davelopotent, Lancaster University £3.		
	their needs and the late discusses both with the	Average recurrent expenditure per full-time student to 1975-5 (f. ot 1976 survey prices) No. of gross cost per student Contribution from fees Net cost								
	the recent economic to the recent economic to the recent economic to the the recent economic to the recent economi	Inadtution	No. of students (000s)	lecturers' salaries -	gross cost other wages	per student other costs	total gruss costs	Contribution from fees and endowneuts	Net cost to public funds	
e :	calleges are "genulogy of Mr Parter said. He sur ance a schon's problem identified competent aidentified staff, after special could be come; stadents, could be come; tain support over a policy.	(excl. polytechnics) non-advanced advanced all students Polytechnics	529	580 890 600 . 600	180 290 190 940 520	190 290 200 330 520	950 1,470 990 1,560	140 210 140 50	810 1,260 850 1,310	
e -	"That should endered be released to pure to development and to said advice and guidance have	folloges of Education Universities	103 87 272	1,630 790 1,000	500 270 625	500 - 270 650	2,100 2,030 1,330 2,275	70 70 60 50	2,036 1,960 1,280 2,225	

sign when o school and Courses with ton much the upon the course of the

puricipants egraed that there igneed for more language in the more graduates to follow courses then those traditiouelly problem in the considering for loguist experters be o considered experters with technology, such as properties with subjects such as properties of law and orea of law

development and to refule the following the solution and guidance and Huddersfield Poly merger

by Judith Judd

Brettun Hall Callege of Education, near Wakefield, is to fight a Government proposel shot it should amelgamete with Huddarsfield Polytechnic.

The polytechnic is also against the polytechnic is a supplied the proposal the proposal that is a proposal that is also against the polytechnic is a polytechnic in the proposal that is a pr

amolgamete with Huddarsfield Polytechnic.

The polytechnic is also against the merger and today Mr. K. J. Durrands, the ractor, will meet members of the National Association of Teachers in Further and Highoc Education to oxploin why.

Mr. Alyn. Davies, principal of Bretton Hall, said: "It is not e combination that makes sense. We are ot least 10 milus from the polytechnic and our links have always been with Leeds University.

"Wa hove collagiste support and many of the adventages of being part of a lorger institution without the odministrative middle. We have diversified conress and we believe we can survive as a freestanding college."

The authority was anxious to retain it a edvantages to be galand from the present arrangement at the polytechnic, with student toacher subjects. It had asked for elarification of what the merger should be reached. On Tuesday, however, they agreed to raconsider this decision after heaving have been went through, ing coursas in shortage subjects.

Even if the merger went through, the merger went through, and provided and retain the polytechnic.

The Government proposes that the polytechnic end Bretton Hall should be amalgamated ioto en Institution of 550 teacher training Places based largely on the existing Bratton Holl provision and retaining courses in shortage subjects from both colleges.

A deputation from the polytachnic and the local authority has terms could be reached. On Tuesday, however, they agreed to raccounted they agreed to raccounted they agreed to raccounted they are the polytechnic.

Even if the merger went through, there would be a cut of about 100 teacher trolning places to the combined institution. Bretton has 350 and the polytechnic 300.

Elite only' firms attacked

Companies who alm at recruiting a recently criticized the universities "tiny ellte" in groduetes are (apparently) for failing to persuade attacked by Aberdeen University's students that honourable and carers and oppointments service in rewarding carers await them in the its annual report for 1977.



The first exhibition in Britoin of cosmoes from the gniden age of Hollywood je now being held of the Whitworth Art Gallery, Munchester Uolveralty. "Ifollywood Film Costume", which will run until July 23, will show o selection of over 30 costumes doting from 1920 ta 1976, worn by such stars es Jane Russell, Grete Gacbo end Marilyn Mouvoe. They include a copa worth \$20,000 with 2,000 peecock feathers which Hedy Lamerr wore for Samson and Delilul, e block silk velvet gown triumed with willte mink and ostrich feothers worn by Gerbo in Romonce and tha wedding dress worn by Vivicn Leigh in Gone with the Wind. Above: Joan Crawfood's scarlet beaded evening gown and cope from The Brido Wore Red.

Industrial jobs study

The Rowntree Trust has given Lancoater University's Deportment of Educational Research £20,000 for o two-year study into why so many graduatee ere reluctant to seek employment in industry.

ployment in industry.

Research director Dr Geoffray
Brown sald he aimed to "discover
what today's studeots think of
eareers in industry and public service at different stages in their
courses, each to find out if their
views are influenced by a wider disactisfaction with factors such as
profit motive and technology. Wa
shall size be interested to see
whether economic factors are
affecting preferences for public
aervice employment".

Sex education

Conference is

cancelled

Britalo's first conference on sex
education for medical students due
to take place in London last weekend, was cancelled dua to lack of
applicants.

Details of the conference aervice employment ".

duatry.

Afterwards Dr Brown hopes to

SNP pledge to 'cherish' universities

The Scottish National Party in conference at Dumlee last week assured a cherished part of the educational system in an independent Scotland. If the universities would reollzo

If the universities would reolizo their obligotious to Scotland by reducing the number of English lecturers in their departments and by promoting Scotlish arts and letters, the SNP would protect them from Government interference, restore quinquental plenning, and give students adequate grants.

The party squeed a stotement on higher education which promised the universities that thore would be oo more Government intarference with thom under a Scottish Assembly than under the UK Parils. be preserved end all full-time still dents would receive adequote min-tonance grants independent of any essessment of perents' income.

essessment of perents' income.

The SNP pressed for expension of higher education in Scotlond, too. A now university of the Highlands ought to be ostablished with e basa in inverness ond constituent colleges specializing in agriculture (on Islo), fishing (at Stornoway) end Nordic studies (in the Shetlonds). A new Scottish academy of arts should be established, primarily to encourage Scottish art and literature but elso to oversee new Scottish research councils whose scope would parallal existing UK bodies.

There was lively debote on aspects of the university question. An amendment that would have committed the SNP to sholish the binery division of higher education loto universities and further education colleges elong with the central institution was defeated. But the porty egreed that the governing bodies of universities ought to be more open to junior acodenic staff and students.

students.

The question of English lecturers who allegedly misunderstand tha Scottish educationol eystem end so penalize their students rulsed tha tomperature of debote. The officiel party document on bigher aducation contained a phrase pledging "no restriction on the movement of staff [in miversities] to oc from other countries". It was reploced by a statement of the SNI's concern that in many departments of the Scottlsh universities Scottlsh aducated staff found themsolves in a minority. An investigation was demanded.

demanded.

Other points made at the confarance were: there should be a groduoi move to an all-graduate tooching profession in Scotland; technical colleges, particularly in rurul areas, should pay speciel attention to the crafts and industry of its locality; the teaching of Gaelic of edvanced level ought to be encouraged by the establishment of more noiversity ohoirs in the subject.

Details of the conference, The team will start by testing the organized by Dr Elizabeth Stanley, emitted of male students at a of St George's Hospitol Medical Generally, the job market for graduates last year was better than axpected, the report seys.

Constally, the job market for graduates last year was better than axpected, the report seys.

Constally, the job market for which the sequence of the property o views. They will try to identify the chorectariatics of courses with high and low proportions entering init was decided to screp the event,

is find those traditiously producting for loguist exporters and structured that students who decided to ambark on such careers received livela encouragement from all the same and orea communities. The the the employment log and orea posts during 150 Aberdeen students who applied for industral and communities management. Many exporting an present by the structured lives management. Many exporting structured as the structured lives and orea of the structured lives and prosect by the structured l



TSA gives £3.9m boost to 'vital subjects'

The Government has launched a

The Government hus faultenett a scheme to truin more teachers in mathematics, scisuce, design and technology and craft.

It is hoped to set up a special programms of one-year courses for about 1,200 serving teachers, qualified teachers wanting to return to teaching, mature graduates, and others with suitable technical qualifications.

ifications.

The sclisme will cost up to £3,900,000 and will be financed through the Training Services Agency and administered by the Local Government Training Boards.

Grants will be paid to local authorities to encourage them to orities to encourage them to accoud serving teachers on full sal-

Mr. Gordon Gakes, Minister of Stare for Higher Education said the scheme reflected the Covernments and Counselling recommends and persistent shortages in secondary schmist of teachers uf secondary schmist reliances. marhomatics, the physical sciences, and croft, design and technology, marhomatics, the physical sciences, and croft, design and technology, provision for carsers teachers is totally inadequate. There are still education system's contribution to only four one-year courses for the country's industrial recovery, careers teachors each producing 10-be said.

Mathematics taught without training, survey shows

At least 35 per cent of marhematics of less sample, 24 were mathematics graduates with teaching secondary schools had no college qualifications and 15 trained graduates in the subject, according to a survey carried seven methematics graduates without by a iscturer in Leeds Univerout by a iscturer in Leeds Univerout tenehing quolifications and sity Education Department. One three untrained graduates in other teacher had no degree ond no subjects.

There were 22 celiego-trained

ilent school and a mixture of 11 to 18 and 13 to 18 ascondary schools.

Mr Woin and this week that he set out to find some eridance for the widely-held visw that heaple were teaching mathematics wirhout qualifications.

The emphasized that his survey other subjects in order to get a street nicture.

unifications.

He emphasized that his survey was imited by the smell eize of the sample and the wey in which it was selected. But he said he suspected that the notional survey due to begin in the autumn would show similer results.

training.

Mr Geoffrey Wain looked at 102
teachers in 15 schools, including
two middto schools, one independent school and a mixture of 11 to
ilent school and a mixture of 11 to
18 ond 13 to 18 sscondary schools.

There were 22 cencgo-trained teachers whose main subject had have done subsidiary anathematics at colleges. Twenty-two former college students had done no methematics.

More chances for mature students

Britain should now plen for en expansion of educational opportunities for part-time meturo students bles to altroet students to port-time study, he said.

In the 1980s, Dr Keith Hampson, vice-cheirmen of the Conservotive Party's parhiomentary education committee, maintained this week.

Speaking in Winchester, he said ther the feliure to expand part-time opportunities was often blamed on the polytechnics. It was argued that they sought lostend to mould themselves on treditional eniversities.

There was e nerional feilure to establish incensives, to altroet students to port-time study, he said.

Numericelly, in the polytechnics, part-time and sub-degree courses had increased but they hed not degree courses and therefore the proportion hed gone down. But, despite this, the rate of development of part-time advanced courses in the polytechnic sector had been greeter then elsewhere in the eystem.

8

Fin

C ?

tians.

But Dr Hempson warned: "It by liberal arts and the hemanides. On average only 6 per cent of polytechnics have strived, often against considerable odde, to create themselves as a strong and dietinctive sector."

There was now a need for greater netional planning so that the polytechnics truly complemented polytechnics truly complemented word netional planning so that the polytechnics truly complemented word netional planning so that the polytechnics truly complemented to the manides. Polytechnics were not dominoted by liberal arts and the hemanides. On average only 6 per cent of shows the reletionship botween the annul student grant and the ordinate of supplementary benefits for a single householder. The rete of supplementary benefits for a single householder. The rete of supplementary benefits excludes housing coats, and if the estimated average amount for housing is excluded from the student grent words.

Applicants must be aged 28 or over and have been out of full-time further and higher education for at least five years. There are separate arrangements for newly qualified unemployed teachers.

The aiming allowances for mature entrants and leachers not samployed by local authorities will be free of tax and other deductions.

Among the courses to which the scheme will apply are the one-year retraining courses in shortage and less than 1300 below, the survey says.

dissotisfied with the wny their union is run, hove built two dolcks and entered them for the vice-presidential electione. Surprisingly, ona of them captured more than 40 per cent of the 1,700 poil and hoe enarged the clear winner. His official duties will be performed by a student stoud-in.

A star is born

Esser hear return I posed three there any unnecessary there any unnecessary there any unnecessary the three two seemeds the three two seemeds the place on the two seemeds the two three thr

at literature is unfor to appreciate the cuermous la- V-c on perk

the trainers



James Porter

Higher education must be the only multi-million pound industry where the workers have no specific training for their central task. The fultering ettempt to train higher education teachers to work more effectively with their audents has lost momentum. momentum, and today there is very little research into post-school learuing or support for tutor-trolning.

Some take the view that the university or coilegs largely exists to enable the steff to got on with their own research and, in return, they accept that they have to teach of leost a few courses. Of course, they do prefer to be teoching shout their awn research, which they may often do in a way which falls to connect with the students' more primitive knowledge of the general field in which they are engaged. Their approach to teaching other aspects of their discipling may often be less than enthusiastic. Some take the view that the imiless than enthusiastic.

of University College, Cardiff, Prefessor L. A. Moritz, chipped in with a useful subpet from Horace, "Past equitem seder arm Cura" (Black cure rides behind the mounted knight) and comments "so much for Latin being out of date".

The economist's viewpoint was put by John Gillard Watson of the institute of Economies and Stetistics at Oxfard, "In these days of fuel economy, soroly the car could be scrapped end, by way of compensation, the vice-cliencelier could be allowed the profit from the sale of manere—menurial rights as it

With nearly half a million With mearly half a millon students about to be pursuing courses of higher oducation and over 50,000 higher education teachers, it is about time that proposals on buduethon and inservice education for school reachers was applied to teachers at the higher education stage,

higher education stage.

All institutions of higher education should require new staff to pursue an induction programme during the first year, with an intensive period he the first term.

Different acrateeles could be adopted, depanding upon the nature of the post and, in the main, it would be a function of discussion and demonstration with more experienced colleagues within the college.

tion should require new staff to pursue ant induction programme during the first year, with an intensive period in the first term. Different attrateeles could be adopted, depanding upon the nature of the post and, in the mature of the post and in the college.

Bach institution of higher education and learning. This could often he linked to the institution's centre for educational pechpology or, perhops even more suitably, to a cantre for learning resources (including the library). It should certainly ended for institutional function and not be greated on as an additional facility. However, it is also the direct respossibility of the head of department or faculty chairman to see not only that there is spinopriate induction there is still to be effective and account.

contracted nor only by foundation but he all instructions. This should me or the allocation of he is a significant of the instruction of the i ment the allocation of the many of any with travel, purpose to post, and clerical upport.

Staff red ployment and development will be increasinely interest in the period of "steady state" that we are inevenably reaching in higher editection, as the student number curve levels off and then tales a

steep plungs in the carly 1930s. However, it inservice education and staff development are to have fundamental as opposed to cosmetic effects, there are three pre-requisites.

First, individual institutions have to be much clearer than their gone. to be much clearer about their general and specific objectives. What should higher education in the late 1970s and early 1980s really be about?

new teaching techniques and preapproaches to fearning should be

allout?
Mare particularly, what should
an individual college of higher
education, university or pulytechnic
he mining to achieve? What should be the balance between coherence and diversity? The act of identifying justitutional objectives and relating them to individual courses and programmes is of itself an impuriant staga in staff and institutional declarations.

Secand, much more needs to be known obout the effectiveness of different strategles of teaching. Colleges are, on the whole, obsessed by the need to assess the individuol student in terms of his own performance, but there is remorkably bitle testing of the effectiveness of teaching or of different approaches to the deployment of learning resources. sources.

When oud for what purposes is a tutorlul method better than a semi nar or lecture or e group project? What are the qualities that make e leoroing superisace positive one effective? Is a high foilure rote o students on a particular course a test of the students or of the tutor? What, in fact, do examinations test?

What, in fact, do examinations test?

Third, there is a considerable lack of research material and evidence on the developmental needs of adults and of their rections to different approaches in a lecture room, laboratory, library or en piacoment. The Open University is clearly gaining a good deal of experience across e wide spectrum. Research, for example, on stages of adult development would seem to have particularly important relevance for those involved in teeching adults.

The recent Council of Europe studies on permanent education,

The recent Council of Europe studies on permanent education, pertleniarly those by Professor Heberaum, indicate that there are general orientations, problems, and personal concerns that directly affect success in learning as adults go through various periods of their lives from the inte teens. This can have particular effects upon the ways in which adults eccept inservice braining; thus, when tolking ways in which adults eccept in-scrvice training: thus, when tolking of staff development and in-scrvice training hotir in schools end in higher education, one coust be aware of the fact that the long-range implications of coathning the current work, community and life-etyle will look very different for an educator in his early thirties than they do for one in his midfiftes.

development.

In higher education there is still too little attention given to distinction in the field of teaching as measured against publications end research. Often the activities go to gether, but every lactitution has examples of outstanding and gifted teachers who publish very little but are highly creative end often crucial to enabling students to achieve understanding.

Study leave and specific grouts to assist tutors interested in exploring of that defence to be effective and account able, as well as openly self-critical, the ended to be effective and account able, as well as openly self-critical, the enders in higher education may wall find themselves at the vecelving end of e much sharper debete then the one which is currently blowing through the schools. If the inevitable critique of higher education is the property of the property of the property of the property of the schools of the meeting through the schools. If the inevitable critique of higher education is the one which is currently blowing through the schools. If the inevitable critical and of the meeting through the schools is to be established.

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Essex report shows hardship cases

cost index.

This is largely because the expenditure patterns of students are rather different from those of the general population and some of the items on which they spend proportionataly more than the general population have increased more than other items, examples in recent years being housing, books, newspapers and periedicals, and stationery.

E. La

percentage of grown weekly carnings incommunity year in manufacturing industry of manual men

Notes: (a) Ah rates adjusted to Soptembor, 1960, prices using the retail price index.
(b) The same is expected to meet accommodation costs, but supplementary.
(c) Deddeding 25 per cent from the student's grant to allow for accommo lighting.

Year Value of

1972-73 1973-74 1974-75 1975-76 1976-77

report shows hardship cases

**The control of the c

Among the findings of an elaborate survey by the Essex University students' union in 1975 (besed on 463 replies to a questionnaire) report on hards

Value of Student meletenance grant 1960-1976

os percontigo of ncome per need of

increesing number in perents are feiling to pay in tull their perental contribution, and increases in the fees can beer harshly on award holders who are in receipt only of the minimum payment of 150—a figure which has not changed since the present system of student support was introduced nearly 15 years ago." (Tuition Fees, Interim Report of a Joint Working Party of the Committee of Vice-Chancelors and Principals and the University Grents Committee.)

Among the findings of an elab.

real velue as percent of valus io 1960 (2)

er return I posed three

use of a university cart'?"

It was, however, left to R. H. Barback of Sevancaks in Kent. to point out that Caligula had appointed his herse to the acuate end this was a useful precedent elace he could only say "neigh" end never "aye" to new propusals. Wali, is fact, I can now reveal that it was not a misprior of all vice-chaocellors do get a horse. They also get generous holly trees and a good position in the nacking order.



David Walker discovers why the anti-trendy

Professor Peacock is moving to Buckingham

'Putting his principles

Scots universities unite for engineering IMSc

by Clive Cookson

Two Scottish universities have got tugether to run a joint postgradu-ate engineering course. An MSc in Electrical Prayer Engineering will draw on the academic resources of

full-time or 24 months part-time, consists of 20 compulsory modules, dealing with such topics as muchine performance and design, pamer systems, numerical analysis and business methods. Students also conductes from a study ten optional modules from a range including energy entiversitin, modear power, magnetic materials and computer programming.

Strathelyde lecturers will teach two thirds of the modules and Heriot-Watt one third. The latter will have to do the travelling (ubout 45 miles from Edinburgh to Glasgow) since the instructional part of the course will be based

Projects will be carried out at the students' university of registration, or, for part-timers, at their place of work. They will be aworded the degree of their own university.

to meet what the university con-

from industry, conumerce and gov-conment for people with this sort of

Management science runs in har-ness with operational research, busl-

ness consultancy, corpurate plan-ning and systems analysis as a blend

klers is an crer-growing demand

clearrical engineering at Strathclyde, said the idea of the inter-miversity course urose out of discussions hetween himself and the late Professor Bernard Salvage at Heriot-Watt.

"We could have covered the whole area ourselves", and Professor Tedford, "but staff in the two universities have slightly different

universities have slightly different fields of interest and this arrangement spreads the load a bit. Each department has its own connexions with industry, too, and it did not seem a unit to compare the compared to the comp seem gensible to run two similar courses so cluse together."

Stranclyde did have a similar arrangement with the University

and Technology, whereby students could register with Strahelyde, do the instructional part of the MSC course at UMIST, and then return to Stratechula.

MSc course at return to Strathclyde. Rowever, financial and travelling However, financial and travelling difficulties forced the university to wirhdraw from the UMIST link last year and team up with Heriot-Watt instead.

"Running a possessible course has been an empty of the course has been up to the course has been upon the course has been upon to the course has been upon the course has been upon to the course has been upon the course has been upon to the course has bea

hoghis to stretch resources these days, and it seems sensible for departments to combine where they ore in a position to do so", said Professor Tedford, Farty-five miles f work. They will be awarded the agree of their own university.

Professor David Tedford, head of 200 miles to Manchester was nut.

this it "is concerned with improving policy formulation and decision-making nt ail levels in on organization and in all types of organization, ft lo an interdisciplinary subject with quantizative and qualitative cond qualitative success Social organization to the policy or an experience of the policy o

Industry training for would-be teached

Degree courses to ensure that prospective reachers know the basic requirements of industry will begin at Sunderland Polytechnic in September. Students will begin four-year courses leading to a BA or IISe with the knowledge that they will like to suend at least three ones to suend at least three of the same for the bounds that they will like to suend at least three of the same for the bounds of the bounds will lieve to spend at least three months in industry.

The courses are the result of recent criticism of teachers for their tack of knowledge of industry, which politicisms and some edu-cationists believe is contributing to the unwillingness of the abber school leavers to take jobs in in-

dustry.
They have been devised by tea-cher education staff and specialists in mathematics and physics at the polyrechnic. The som is to prepare leachers for the problems they will

out of teacher education and gain their degree in three distead of

expected to begin in September. Studento will spend six months in lusiness. At the end of their final year they will be able to choose between the REd degree course and courso leading to an award of u BA in business studies.

Students will spend half their time tearning how to teach. The BEd honours degree will be the first

four years.

A liked degree for specialist each other and to the ling feuchers in business studies is also fems, which are found in being prepared.

In England to give marks for proc-

lunta course in Septente, welcome application has enose public servant. The diploma town value received to student with degree or equivalent requalification and subment ence. Specialist administrative the chance to feat problems of their operations of their operations. The Sheffield Polytecholistic ing from September 123. sor Peacock moves next year to Buckingham as professor of econ-omics and priocipal-elect. Ho is due to take over from Mox Beloff

io 1980.

Interviewed lost week at his London club, Professor Peacock explained the reasons for a move that surprised many of his fellow economists outside York. "Acodemics very rarely bear the custs of holding the opinions they tio. It is very easy for us to hove principles if there is no risk ettached to stating them," he said.

"One alement in my decision to

"One alement in my decision to move to Buckingham is that one feels on a may have been cheating, to have hald principles cutalling a certain view of the stute's rule in higher education without ucting on them."

The oovellet, a great foc of hypocrisy, would have approved the sentement. For many years, in Insilitate of Ecocoode Affairs (1EA) pampilets and in public lectures, Professor Peacock hos argued in defence of the freedom of the Indianal the millerstanding of solid by a massive public sector. He has and the obliny to work in been associated with the idea of an interpretation from the course, which has sopportuoity to put my principles the coived validation from the ceived valid Authors will include Rabefais, five departments: English studies, fine art, French, Germon, and philosophy.

The course, which will lest ona term, will provide an introduction to the Renalssance ao a period of cultural rhonge and os e background for mora advanced courses already being taught, Eraonus will be the key figure. Four of tha 12 weeks of the course will be spent studying Erasmus in the first poet of a degree, it has been set up to will be spent studying Erasmus in the first poet of a degree of the boord of arts has been set up to supervise it.

Authors will include Rabefais, More, Wyatt, Brant and Luther, For the course, which is opportuoity to put my principles coived validation from the inversion of the first over component, with only and the first of the luther of their une in the first over the course is its carrier. Students will apply any mouth is "Professor Peacock's economic librative will apply any mouth is "Professor Peacock's economic librative will apply any mouth is "Professor Peacock's economic librative will apply any mouth is "Professor Peacock's economic librative will apply any mouth is "Professor Peacock's economic librative will apply any mouth is "Professor Peacock's economic librative will apply any mouth is "Professor Peacock's economic librative will apply any mouth is "Professor Peacock's economic librative will apply any mouth is "Professor Peacock's economic librative will apply any mouth is "Professor Peacock's economic librative will apply any mouth is "Professor Peacock's economic librative will apply any mouth is "Professor Peacock's economic librative will apply any mouth is "Professor Peacock's economic librative will apply any mouth is "Professor Peacock's economic librative will apply any mouth is "Professor Peacock's economic librative will apply any mouth is "Professor Peacock's economic librative will apply any mouth is "Professor Peacock's econo

r peroial or articulata; their area r peroial initiative was squeezed ind the motive forces of economic The Language to the college of the students are modern teaching and technicisms working in apport throw there are modern teaching and technicisms working in apport through the students are modern teaching and technicisms working in apport through the students are modern teaching and technicisms working in apport throw the students of incensiva language courses designed interesting the students will be the more than the students will be sent to them to language may cert and special learning personnel to such as good the students will be sent to them to suggest the students will be sent to them to suggest the students will be sent to them to suggest the students of the fire-college studies.

A college spokedsman sold this work of the fire-college studies.

A college studies are under the students of the students

where his mouth is It is what Thomas Love Peacock might have called "a felicituus conjunction!". The novelist's name aske, I refessor Alan Peacock, frea market occasionist and critic uf Government interference in higher education as in business life, is to link his fortunes with the free enterprise University College of Buckingham.

Leaving the state-protected waters of York University, Professor Peacock noves next year to Buckingham as professor of economics and priocipal-elect, Ho is due to take over from Mox Beloff to 1980.

Buckingham as professor of economics and priocipal-elect, Ho is due to take over from Mox Beloff to 1980.

Buckinghom get out of the deal—
e name, reputation and an occomplished administrator. But what
these Alan Peocock get?"

Professor Peacock replies:
"Buckbigham is still a challange
to the cstablishment, I like a screp,
and if it is anything like the early
days at Yark it will be intensely
enjoyahie." Versed in university
administration from his years at
York, Prafessor Peacock wanted
his own show to run, to chonce
his orm.

days at Yark it will be intensely enjoyable." Versed in university administration fram his years at York, Pracessor Peacock wanted his own show to run, to chonce his own show to run, to chonce his own show to run, to chonce his own, York has rumbled with discuntents, major and minor, since the later 19600, and it is no accret that when he returned to the economics depuriment after the DTI Professor Peacock was not comfortable. Part of the trouble was the university's need to edapt to steedy olute" conditions after rapid growth.

Talk of educational innovation does not, however, issue easily from the lips of someone os dedicated of Professor Peacock to combating trendy ideae. He prefers to pilt it this way: Buckingham le subject to market forces and will have to

Industry.

At the birth of Buckingham, he would have preferred an institution more akin to Birkbeck College, London, and catering for adults. Even now ha is grieved by talk of Buckingham'a being o "rich man's college". It would be much better, ha feels for tha whola 18 year old popolation to have some kind of aducational/vocational crodir which thay could cash in in any kind of inotitution or training, either then or later in their lives.

Professor Peacock's style is quite

Professor Peacock's style is

Why Wolverhampton Polytechnic's design students are alive and well and living in cardboard boxes

In early summer it can still be cold and wet 1,000ft up in the Welch mountains. At the head of Cwar Byckan, a wildly heautiful valley which runs inland from the Cardigan Bay coast for 10 miles before the encircling mountains sunff it out, the feeling of isolation can be complete.

then the field triats of three inter-tions cardinard linases, designed and made by a group of nine Wol-verhampton Polytechaic students as part of a project to devise tem-porary housing for the victims of carthquokes, flueds and other octural disasters.

oatural disasters.

Seven days living in their shefters certainly gave the standards, all in the second year of the BA degree design courses at Wolverhampton, an intimate taste of have an otherwise homeless community would have to face the immediate problems of survival. There was plemy of time for self-criticism of design concepts and construction skills. By the end of the week, however, when the eardboard hamlet had been dismantled and was on its way back to the Midlands, paper housing was seen in have much to emuribute to disoster rehef.

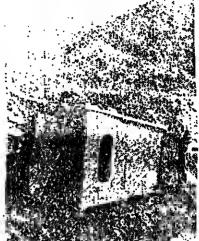
Mr Alf Merricks, the lecturer who devised the project, anys that the

Mr All Merricks, the lecturer who devised the project, anys that the ideo of cardboard accommodation began to interest bim when he read that the metal frames of tents parachited luto Turkey after an earthquake had been made useless because they buckled when they hit the ground.

the ground.

Cardbaard—more resilient than metal, lighter than frame tending, and both cheop and plentiful—accumed an obvious candidate for investigation.

Each student first submitted on individual design. These were then whitted down to three, which were taken through the construction staga by students working in tenns of three.



large press-studs. It took three students 15 militates to manhandla it in its pockaged form across half a mile of bouldar-strewn countryside to the site they had chosen. Thero it took another 10 minutes to coax

A door, a transparent plastic window, and a simple ventilator are incorporated in the shelter, the olaterials cost loss than £50. The second design is the most eye-catching. A truncated tetrahe-dron, it is mode up of 13 picces

dron, it is mode up of 13 picces with a built-in skylight in the horizontal top panel to take maximum advantage of natural light.

The third is simply o huge cardboord rube, folded concertinates fashion, with end pieces which secure when it is fully extended.

All three employ the same basic material; heavy duty cardboard packuging oormally used in the manufecture of shipping crates. Sheets 7ft by 14ft provide dwellings with an overage floor area of 35 sq ft to 50 sq ft—giving room for four people to sleep. Cramped, perhops, but a paloee to a home-less fomily picking through the rubble ofter an carthquake.

During the field trials, refinements and innovations in both design and use evolved. But cord-

First there were the day-to-day snags to iron on: how to find your new house in the dark, for example. The solution was to fix strips of luminous tape round the door; and if one detached cardinard property was too isolated—why not join up with your neighbour and form o pair of semis, with internal communication. The joining could be extended as that could be extended so that mis like field first-aid comes, with linked structures of wairing room, surgery, and dressing room,

mists and mountains more realistic the stadents elected to live un a daily food ration of 55p o head ing only unprocessed fruit, nuts and ootneal. The limited menn helped to ease the task of cooking on smolt butle-gas otoves luside tha confined space. Both students and buildings odapted well to the unfaulter and particular and particula stilicuts and buildings odapted well to the infamiliar conditions. That dwellings remained warm, even though night temperatures fell to freezing point, because of card-board'a insulating properties. A protective coating of paint, backed up with on occasional caulking of suspect joints, kept the rain of bay.

Mr Merricks, who with two colleagues, Mr Bob Pearsail and Mr Lylc Ellard, took up residence in a deserted cottage nearby to keep on eye on the cordboard encamp-ment, was confident at the end of the week. "The otudents hove shown quite clearly that it is pos-sible to produce slumple, inexpensive housing which could alleviate the distress of a disaster", he soid.

diotress of a disaster", he soid.

The enthusiastic reaction of tha students—understandably proud that they had achieved the unlikely feet of living for a week in a cardboard box—was oummed up by Andy Thomas, aged 20, from Sutton Coldfield. The folded houses, packed in bundlos of 10 or 20, could be parinchuted into a disaster area and wherever they land they could be assembled easily if we paint on different coloured arrows where the parts have to be joined togethor".

Tony Heath

Mortin Luther-his writings will be studied ROSE BRUFORD COLLEGE OF Five departments SPEECH & DRAMA

HONOURS DEGREE IN THEATRE ARTS (CNAA)

Swansea management science

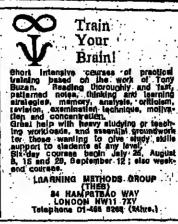
An interdisciplinary degree in man-naement science is to be manufed at University College Swansea in a bid According to the course prospec-

ness with operational research, busi-ness consultancy, corpurate plan-ning and systems analysis as a blend of the quantitative skills and the decision-making processes.

Cockpit Arts Workshop 10.00 am to 6.00 pm, Friday, June 24, 1977 THE SCHOOLS COUNCIL AND THE ARTS IN EDUCATION

Amportant cary a conservation corruption crystates parts of the equipment DES/NATHFRE

Course Not 5 8 September, 1877 shop Longoile College of Education, Derby Spellet & Geometrical Ideas in Mathematical Education This course will be open to ell acturers in institutions engaged in leacher education end to LEA advisors and inspectors. The main aim will be to consider spalled a geometrical these in majorations opening in majorations opening in majorations. for bother information clease with the correct Department at Educates and Science life t Short Courses, Elizabeth House, York Rask, Lendon SE1 7PH. U28 8222 x 3179 of 3234.



The "Northorn Ronoissance" is the theme of on interdisciplinary course at Stirling University to be offered jointly from February by staff from five departments: English studies, fine art, French, Germon, and philosophy.

combine on

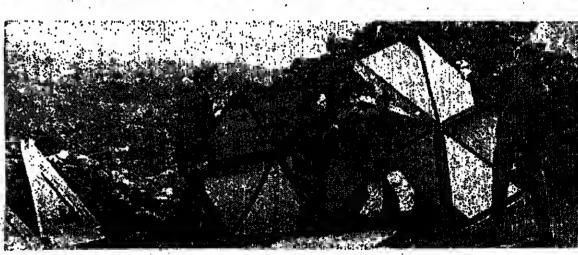
renaissance

relation to the classics and contem-parary religious thought. A further week with three introductory lec-

tures and tures introductify tec-tures and the Renalssance in Eng-land, Fronce and Germany will lead to another four-week period when the class will divide to study literary texts from two out of these three Authors will include Rabefais,

Language aid for export drive cludes a compulsor vision and the computation are computation are computation and the computation are computation and the computation are computation are computation and the computation are computation are computation and the computation are computation and the computation are computation and the computation are computation are computational are comp







If you want to shelter from the elemente, first erect your shelter. Students (top) erect their cardboard "tube" house in the Welsh hills (above).

'Educational decline' fear prompts a fight

Yorkshire is the most turbulent region in its coercion to the Government's proposals for the reorganisa-tion of teochec training. Yorkshire-men have resisted the proposola sturdily and local authorities have refused to take the Department of

Considering the Government's inconsidering the Government's insistence out the need for o good
regional spread of colleges, the proposals for Yockshire and limberside accovery stronge. In West
Yorkshire, there will be four lostinutions offering initial teacher teaining and in South Yorkshire only
one—Sheffield City Polytechnic.

In addition, West Yorkshire, with only 57 per cent more people, has been given 180 per cent more places. Within Sauth Yorkshire Itself the proposals will leave a population of \$00,000 in and around Donesser without any teacher training Institution. It is an area of nuners and railwaymen, of suranting pit villages, beass bands and educational deprivation.

Doncaster Metropolitan Institute of Higher Education officially come lato being last September, the result of a merger between Doneaster Callege of Education, Scawsby College of Education for mature students, Doncaster Technical College and Doncaster College of Art—an educational experiment with obvious advantages for a place

Head teachers view the prospect of the disappearance of the college's teacher training with olarm. One teacher in every five employed by the local authority was trained at ane of the two colleges of education and theads wonder how they will ettract good staff to an aree which does not obound in obvious attractions. They see the students who do teaching practice in the schools as an iovaluable source of new ideas and the college had to face an angry deputation of Scunthorpe headmasters when it was proposed that students should stop going there. There is much interclisinge between achools and the college head to going there. There is much inter-clienge between achools and the col-lege, with children going up to the college to go over the neture trail and for remedial work.

cliange between achools and the college, with children going up to the college to go over the neture trail and Huddersfield Polytechnic should be amelgameted.

If Doncaster loses its teached training, there is a real danger that the quality of education will decline, schoola believe. Teachers will feee a lourney of two hours or more to reach the nearest inservice training courses and the nearest inservice training courses. At the moment there is a big demand for the colleges in service courses. Sheffield Polytechnic in the foundation of an Institute of Higher Education on the Elngley and technological education at Bradford. He also opposes the present teaching system at Bradford College.

In it may well sound progressive and democratic when someone teaches O level, DipHE and degree courses. In reality it may mean that and Huddersfield Polytechnic, when someone teachers training should be amelgameted.

Pert-time initial training of the Castleford Annexe should cease.

Ledy Mabel College, Rother-kan should merge with Sheffield city Polytechnic.

Initial teacher training should democratic when someone teaches O level, DipHE and degree courses. In reality it may mean that all contents lose out in the foundation of an Institute of Higher Education on the Elngley and technological education at Bradford. He also opposes the precent teacher training should content to foundation of an Institute of Higher Education on the Elngley and technological education at the foundation of an Institute of Higher Education on the Elngley and technological education at the foundation of an Institute of Higher Education on the Elngley and technological education at the foundation of an Institute of Elngley and technological education at the foundation of an Institute of Higher Education on the Engley and technological educat

these. At the moment there is a place of the grade of the collages in the collages in the service courses. Sheffield Polytechnic will serve tha south and west of South Yarkshire but Doncester, geographically the largest local education authority in the country in the country

A levels entering the callege, but, as the government criteria pointed out, such statistics are subject to fluctuations. Doncaster College of Education was porticularly strong in the shortage subjects of mathematics and music. With all the other urguments running in its favour, the college must have a real chance of succeeding in its fight

An equally hard fight is being put my in North Yorkshire by the small Nordh Riding Collega of Education In Searborough. The college has good reason to feel bitter shout its treatment by the DE5. It has been encouraged to mount pioacering courses, to diversify despite its size ond inspectors have expressed interest in its unusual Blid degree.

lu its case for the ratention of teacher troining, the college says:
"The inspectors were keenly interested in the innovatory nature of the course ond woru not nware of the course ond woru not nware of any other degree for primary school teachers which cotered especially for the different professional needs of teachers of this

ogo group."

The college is the only institution which has fully integrated with the Schoola Advisory Service. The Schoola Advisory Service. The advisors for the eastern half of the county acs bosed in the college and regarded as equal members of stuff. There is joint planning of in-service courses throughout the county. This pioneering work is now being extended to edvisory aervicas of ather authorities.

ather authorities.

In addition, the college is used ves an Open University study centro for about 150 students and also provides edult literacy courses. There

The proposals

• Teecher education facilities at Bretton Hall College, Wakefield and Huddersfield Polytechnic

The college believes that it ful-

fils government criteria and points to its three applicants for every entry is expected to be completed by 1978. Despite its successes, how-ever, and the flexibility which it has demonstrated, thu college is swimming against the tide. It is small in a comparatively small place are likely.

and the DE5 does not appear to be are likely.

Bradford's academic board has bradford's academic board has

In Doncuster und Searbornugh, the calleges are lavolved in o the calleges are lavolved in o straight fight ugainst the Government. In Brudford and Huddersfield, the hattles are more complicated. On the right in Itradfurd is the Conservativo cunneil. On the left, Bradford College, which the Government has said should keep its tencher troluing, and somewhere in the middle are the local authority officers trying a salvator officers trying to salvage a saludout from o situation where politics threatens to triumph,

Last week the local authority pra-posed that Bradford should luse its teacher truining and associated courses and that these shauld be given to on institution formed from an amalgamation of Blugley and Miley Collegos.

The Government proposal was that teacher training in the threo Bradford colleges should be reduced from 1,000 to 600 places "in such from 1,00 frem 1,000 to 600 places "in such a way as to safeguard provision for home economics and training releavant to a multi-racial society". The DES paper said this would probably mean the closure of Bingley college. Bredford la the college with the home economica and multi-racial educationel courses.

A version of the local authority's solution is supported by Mr Dennis Warwick, a lecturer et Leeda University. Mr Warwick suggests the foundation of an Institute of

overoge unemployment figures, has not.

Why is Doucaster on the closuro list? There has been a receat drop in the number of students with two of only 350 students has attracted has a designation.

Is a DipHE with the chance of a bright with the chance of a transfer to s BA or BSe at the colleges hove fine reputations and llradford's reluctance to lose them is understanded. Ilkley, though it has only 350 students has attracted only 300 places, that diversified into youth and community work and community work and community work and community work and community. into youth and community work and Bingley, with the same number, has flourishing courses in drama, move-ment, physical eduration and social studies as well as shartage subject courses nod a liA.

THE THIRD MONEY EDUCATION SUPPLEMENT IS

A pioneer of distance king a time when those who cont

phrase were probably alle-the service seems a par-British institution, with 1602

adult education moreneges adult education moveneges beginning ut this century from the nuch inder seafaring taken was founded in 1919 by Mausbridge, the founded in the Workers L.

"It was difficult to a state time", says Dr Roue director (and also historical service. "The shippment that scularers could never that

the books would spery throughout the ships, but

officerion seemed to be duli bridge wanted them to pe

retary and staff were her

the service began, from a c in Russell Square, lo 222; Callege of the Sea was get

mok and reading lists her

ful 1975 the service toke

Ship Adoption Society, 116,21

which fasters have schools and selfs and selfs year. by Parliamentary at merged with the Marie: the of the key ordinary

It is surely, hawever, a nonscare to suggest as the authority has done that the uniti-racial education courses should be moved out of the

turned down the head unthority pro-posal and has said it will fight to keep teacher training, Local authority officers are hopeful that a rous-prantice can be worked out with Bradford keeping some tearlier training places, but it may be one of the places where the DES has to Impose its own salution.

The Government also faces celestian in Huddersfield, where it is proposed that Bretton Hall College, near Wakefield, should merge with Huddersfield Polytechnic. Staff and Bovernors are adamant that they do not want to juddersfield and that the college with that the college with that the college with that the college with the co

members run be michel nuit that the rulege should remain a freestanding institution.

Its traditional assardations me with the university of Leeds and it already has two IIA degrees with about 80 students validated by the university. Hudderstield is about 10 miles away, which is not for by present merger standards.

In terms of ethos, the college, a mansion set in the middle of the countryside, and the industrially orientated polytechnic, may well seem farther apart. The college has apecialized in music and drama and fears that some of the exportise it has developed might be lost in the larger institution.

The proposed groom of the ffudderstield partnership is as unvilling as the bride. A deputation to Mr Oakes including the rector of the polytechnic, the chairman of the govarnors and local authority representatives, expressed lack of continued as the bride on heard ship, mathematics. They give mathematics on Englished with the sea, wildow and only in one or two continued in the polytechnic, the chairman of the govarnors and local authority representatives, expressed lack of continued and ship, mathematics. They give mathematics are to take out the polytechnic of the govarnors and local authority representatives, expressed lack of continued and continued an

the governors and local authority representatives, expressed lack of enthusiasm for the ideo.

The authority and the polytechnic are against the idea of o freestanding institution under the general aegis of the polytechnic and believe that the present arrangement of the polytechnic with teacher training students pursuing courses alongside students in other subjects is the best one. The authority has esked for clarification about the cost end practicality of the scheme. The

THE TIMES HIGHER EDUCATION SUPPLEMENT 3,6,77

Polyteclanic Profile 26 North East London

Innovation and protest at the sign of the 'Spotted Dog'

North East London Polytechnic's and is to be validated by the Councillaime and sandwirh course prospectus for 1977-78 carries a full-page photograph of a public forest Gate, east London, placed by the ominion.

With approval, the narticles conveniently near twu of the polytechnic's sites and with the unusual name "Spotted Dog".

The same prospectus has a fore-word by Dr George Brosau, the polytechnic's director, which says chartily: "... I should have used this space to give you a guide to the puls round the various pre-ciacts. (The one I use now and again Is just opposite West thun, and is culled 'The Placons'.)"

These are new ploys to attract students to the college in a year when NELP has wen n remutation The recent juling of Andy Stroughus, the students' union president, has bounded an unfortunate wave of publicity for the college which many NELP academics fear could seri-misly turnish their polytechnic's cepatation and affect admission

figures this nuturn. Occupations have became some thing of n way of life at NELP's three main precincts and six other teaching contres spread over the three London areas of Dagenham, Stratford and Walthomstow. Since last summer, when u row broke out ast summer, when a now proke our over the dosuptions of a governous' meeting by a group of students, barely a month less passed without a sit in over one Issue or au-

The ensuing publicity, much the same as that which hit the Polytechnic of North London in the early 1970s, has masked academic developments of which NELP is justly proud. In the past 12 months it has launched e pact-time Diploma in Higher Education programme Higher Education programme, offered by Indopendent study in the sams way os its innovotive full-timo DipHE course, and started a ono year full-time degree by imagenetic the DipHE programmes.

Esrlier this month the Science Research Council nwarded the college o generous £135,000 grant furthe establishment of a touching company in conjunction with Lesney Products, the toynnakers and discasters. It is the first polytechnic to eaceive funds for a touching company, and a feather in Dr Broson's cap during a year of turmoil for the college.

The polytechnic was set up in 1970 through the amnignmention of the advanced work of three Loudon technicol colleges. The three sites remained and together with that other buildings now house more than 7,000 students, 37 per cent of whom are of full-time courses, 19 per cent on sandwich courses, ond 44 pec cent on part-time, short full-time, or block release courses.

Of the full time and sandwich students, 30 per cent are aged between 17 and 20, 38 per cent deliveren 21 and 24, and a substantial proportion—32 per cent—are aged 25 or over, an indication of MELIP's firm commitment to meture students.

MELP's firm commitment to meture

Nearly 40 per cent of all full time and sandwich atudents are recruited leally. The coming academic year's respectus ease: "The polytechnic maintained by three largely meting-class boroughs, end we are desmined to remain a pert of that community both as an invision. ind as individuals.

was are prepared to open our tensures are the contract contract of the course of students has recently completed or the problems of marking help in the form of the course has the adversion that the course has the adversion that the course has the adversion to the course has the adversion to the course has the adversion to the course of the course has the adversion to the course of the course of the course has the adversion to the course of th

With approval, the part-time course will be the only honours programmae of its kind (the Polytechale of North Loadon offers a part-time ordinary degree courses and Mr Normao Frich, head of the architecture department within the faculty of environmental studies, is

Already students from all over the south east and as far away as Brighton, Reading, Narfolk and Bath, travel to the department's base at Woltham Forest for the part-line diploma course, which is spread over four years. Students spend one day-mine house in spand one day—nine hours—in college earh week and four days in an architect's office. Mr Frith says this meons that thair work load tion of most students—there wero 133 part-timers on tha coursa over-ull in 1975-76—ls high.

nrchitecturo on a three-year sand-wich basis. B5c degrees in civil engineering, land administration and land surveying aciences odd to tha

ment of architecture in parallel with the teaching programmes. It pro-vides professional architectural services for building contracts and is almed at demnustrating to students on office "In oction".

The office bas recently won a fim local authority contract for a shopping and housing development, and the animal "turnover" generolly reaches £500,000. Fee income from the of ice during the past two-and-

The department's research is also becoming well established. There is an on-going liatson project with Essex County Councid in comexion Essex County Council in connexion with housing experiments in solar onergy und fuel conservation. With finuncial assistance from Unesco, o smell programme has also been mounted to provide u critical nappraisal of esclection of solar-licated houses, and e pattern of further energy conservation studies is being built up.

NELP also has a thrivlug faculty of selence, which bosides a compre-hensiva range of full-time and sandwich programmes offera part-time BSc coursas in physical sciences, life aclence, applied blology and mathemotics.

Mr Paul Dye, is head of the full-time BSc aclence programme, a flexible modular course covering mathematics and science. Students can base individual programmes on single-subject specialization or hreader based study. The annual intake to the course-

The annual intake to the course—which is now in its third year—is between 70 and 100, lodiceting the high demend. Each year students select three modules for study, and this accounts for 55 per cent of the timetable. The remaining 15 per cent is devoted to the core securiculum taken by all students.

said Mr Dys.

There is a particularly high from students locally and in the epartment of particularly high latther effeld for the polytechnic's West Ham policy is latther effeld for the polytechnic's West research work in the economic development of the response the college in some ways, tested for the first time.

There is a particularly high from students locally and in the polytechnic's West Ham polytechnic's West Ham polytechnic's West Ham polytechnic's West Ham practically high at the response the college in some ways, tested for the first time.

The foundation which is the only had its teething problems (only this sciences, ss leading research into the induction and control of allergy in the department of paramedical partition of its kind in the United on e full-time basis in the college is based at the Barking attended to the response the college in some ways, tested for the first time.

The foundation which is the only year the course by independent study has sciences, ss leading research into organization of its kind in the United of the indital planning period it is the only year the course by independent study has sciences, ss leading research into organization of its kind in the United of the indital planning period in the united of partition and control of allergy in the college in some attended to the response the college in some attended to the response the college in some attended to the response the college in some ways, tested for the first time.

The foundation which is the only in the department of parameters in the college, is based at the Barking attended to the college in some ways, tested for the first time.

The foundation which is the only in the college in some ways, tested for the first time.

The foundation which is the only in the college in some ways, tested for the first time.

The foundation which is the only in the college in some ways, tested for the response the college in some ways, tested for the first time.

The foundation which is the college in some ways, the college in

A drug research unit, headed by which basis. B5c degrees in civil engineering, land administration and land surveying aciences odd to the weelth of this strong faculty.

A practice and consultance office, employing one senior and four junior staff, is run by the department of architecture in parallel with the teaching programmes. It was won credibility in the world outside. His work includes impurfant research into anti-micrubial drugs.

But not all the seven faculties at NELP, which are now undergoing an organizational change which will allow them a higher degree of self-government, are flourishing in the same way as the faculties of science and applicable of science and applicable of science. and anvironmental studies. While the arts faculty boasts a science ficthe arts faculty boasts a science fic-cion foundation and music centre, its more fundamental undergraviu-ate work has suffered from e refusul by the CNAA to validate its proposed BA in humenities and the Government's proposed cut-backs in teacher training provision.

The proposed lumusities degree was submitted to the CNAA cartier this year, a fourth autempt to get validation by the department of humanities or its predecessor the Borking Regional College. Dr Brosan says that the opinion of the council is that "inter elle the suff of the department are collectively unable successfully to offer such o course".

offera only ane degree course—a BA social studies (Modern France)—which has attracted only 28 students which has attracted only 28 students in its three years of operation. Consequently Dr Brosen is now proposing a "link scheme" or possible merger between the faculty of arts and the echool for independent study, which unlike the faculty has a remarkably successful record for atudent recruitment.

The problems feeing the arts faculty have been further execerfaculty have been further execer-beted by the government's proposed closure of the education depart-ment's main full-time BEd degree, e mave which will serve only to weaken the faculty's potential for setrepting educative. But the merger scheme, said undergoing tengthy debate, is not being welcomed by members of the National Association of Teachers in Kurther and Higher Mr Dye asks atudenta to complete "case atudies" in groups rather than undertake laboratory, pointed out the college. They have pointed out the problems of merge.

The polytechnic's faculty of environmental studies also offers a medicol schuols. The department's research team has developed an polytechnic postgraduste diploma in allergy-resistant strain of rats. formation about science fiction, investigate the usefulness of science fiction in education, and provide research facilitles.

Mc Nicholls soya: "We are interested in science fiction itself, as a body af litecature whose sociel functions and literary values have not yet baen closely scenarized by the media or the ocodemic world, despite the importance of the issues with which it deals."

During the past three years the During the past three years the foundation has received more than 50 inquiries at its small offices in Barking—Mc Nicholi has only one research assistant—about the possibility of doing postgradunte work in science fiction. 5ix applicationa from students planning to complete MPhil theses have now bean opproved, and the polytechnic will supervised work.

Mr Michael Kibblewhite is head Mr Michael Kibblewhito is head of NELP's music centre, which acts as an important link between the college and the local community. It boasts the NELP chorns, made up of more than 120 students, staff and members af the general public, end a smaller chambee chair.

Within the higher education world NELP has become renowned for its innovatory school for independent study, established to provide faci-lities for students to organize their own etudy programmes to obtain the DipHE and more recently a de-gree quelification.

More than 250 students have entered the full-time DipHE programme at the college since it was isunched in 1974, and this apring a partitime DipHE course was leunched which attracted more than 100 applicants of when 38 was sure of the course 100 applicants, of whom 38 were cn-

The pert-time course has three overlapping phases. The first, the planning period, involves students in the drawing up of a mutually agreed statement specifying his learning hopes and how that learning should be arranged and evaluated. In the second phase the errodents, will work their exceed programmes using group work and individual studies as appropriate and drawing on the varied resources and expertise of the college. A final stage will be used by the students to show that they have gained the

one af NELP's key success stories. Critics have been made to eat their words ood while there ore some comfouling difficulties with the pragramme, mainly because of its himography. tiated an academic placement with staff in other departments ond foculties of the college to pursue individual academic or vocational

A company limited by guarantee is to be formed at NELP—and named NELPCO—to rationalize the college's growing coasultancy and short courso provision. Mc Colin Milner, the polytechnic's administration officer, will be company

ond there are signs that this will not be insignificant—will be used for the "good of the palytechnic". "NELI'CO will be supplementary to the work of the polytechnic", Mr Milner aays, "It will provide flexible back-up support and retionalize the present activities."

Besides agrand short course pre-

Besides aoraial short coursa prosesides agraial short coursa pro-vision relthin the normal college foculties the polytechnic houses the Auglian Regional Monagement Ceutre, which provides for manage-ment education and training throughout East Anglia and North East London from its two centres, one in a large course. one in a large country mansion set in nurkland at Danbury Park. It is a major short course provider, covera major short course provider, covering such areas as management development for middlo and senior management, supervisory studies, local government, industrial relations, international marketing and

Dr Brosan ls determined that the troubles that have beset the college devolopment and stending. Admissions figures rose this year, and ho enjoys a good relationship with the joint education committee of tho three London boroughs which fund the college fund the college.

He says he welcoates student par-ticipation in the government of the college, but cegrots "that the result of activities of a militant minocity should have been to aggravate a mormal healthy student union organization. Thece is certainly clear evidence that the disruption has been caused by people not directly concerned with the polytechnic."

For the staff unions at NELP the "atop-go est-ins" heve proved an invitation for some members and a real bono of contention for others. NATFHE has voiced its opposition legal intervention on of also directors, but more recently of the directors, but more recensly when Strouthous' imprisonment provoked yet unother occupation feelings ran high about student action. For the union, though, other issues such as the threatened loss of the Bed degree are of equal

The college branch of the National and Local Government Officers' Association is sympathetic about increases in overseas students John Turnbul, e orange students were tive, said that some students were "hated" in some quarters. A freez-ing of administrative and technical staff vacancies at the college—cur-

rid the college of any inilitant Individuals. This is the issue, if any,

which could provoke storms in the coming academic year. Sue Reid



Universities

Lecturers: Christopher Allinson, Dong-las Wood (management studies); John Gloson (manachhesia); Gwyneth Pitt (law); David Tuvler leducation); John Wood (maillemagles); Kattmaya-kage Perein Juisl biology). Temporory lecturers: Richard Davies (Russian studies); Collo Brock (editeation); Experiocental officer; M. Bennett (civil engineering).

(civil engineering).

Lecturers: D. Seed (English litera-Lecturers: B. Seed (English thera-ture); C. Edwards (unlerablolugy); Jeanifer M. Cowen (clinical, child health); L. J. Leslin (clinical, ortho-paedic surgery); Elizabeth A. Costley (clinical, dental surgery); H. Free-man (clinical, orthodonites); J. O'Reilly (electrical engineering and electronics); R. J. Contor (veterinary parasitology); P. R. Slakespeare Albrical mychology, temporary). Reelectronicsy; P. R. Shakespeare (chaseal psychology, temporary). Re-search assistant: Joanna Thorne (sur-gery). Tulors: Frederique Boucaut and Ellone-Jeanno Mactin (Freuch).

London

London School of Economics
Promotions to sender lecturer: Dr
M. J. Desai (economics); A. L. Gooch
(Spanish); Dr M. Knott (stalistics);
Dr N. Monzelis (sociology); Dr T. J.
Nossiter (government); Dr S. A.
Roberts (law); Dr I. C. Woodburn
(anthropology); C. Hutchinson,
J. Sumon and Dr A. Zabatza-Marti
(economica); Dr C. J. H. McDfarmid
(mathematics). Moreis Gluzberg
Fellows: Mr H. H. L. Abraham and
D. S. Bparnason (sociology), Visiting
fellow; Dr C. B. B. Grindley (systems
analysis).

Kings College Fellows: B. W. Anderson, A. C. and Pauline Downs

Man-made Fulures: Draign and Trek-nowey: Lomputer Aided Draign Sys-leme (7263; Para M., Maring Benso of Society: Berckworker (2011): pro-

Mais this mider Strose! Sure Off-shore 42: [7361; prog 16]

Division of the Proscontum Stage and Intimals The Proscontum Stage and Intimals Case of the Proscontum Stage and Society: The Case of William Tyndalo 12, 12,03; proc St. Malhomatice Countains Course: Prokability and Statistice (1) 1M100: Prog 16;
Aria Countaillon Course Socrete and the Search for Universals. Logic: The Problem of Induction 1A100; prog 101.

). enco l'auninilon Course; Uses end usta of Riclouy (Supplionentery derial (8100; prog 16),

0.05 Opes lorum—17.

8.20 lilatory of Architecture and Design
18.40 ft.93. Gorbany: The Second
Tradition of the Twestos (A300:

8.40 inc Age of Revolutions. Kant; Free
Will and Determinism (A202: prog

11.40 An introduction to Psychology. Student Exercise: Rosults (D8361) prop 7).

British Sociological Association Postaraduate Summer School

EDUCATION, SOCIAL CLASS AND THE STATE Hatfleid College, Durham University from July 14th-21st, 1977 Speakate: B. Rosasinia, P. Cotrigan, M. Cauld, R. Hell, P. C. Hirst, D. Kelles, D. Lane. Tulors: J. Ablar, R. Celle, R. Johnson, B. Williamson. Further details from Tony Green, institute of Education, Gordon Square, London, WC1. Telaphone 01-636 1800.

An Introduction to Materials: Choose in a Material (1825); prof 7 Touco in ture hathous tuting 18,000 Touco in ture hathous tuting 18,000 Mechanics on Applied Cakulum Lawry and the Concervation Laws 16,200 Touco in the Concervation Laws

Saturday June 4

12.40 18.05

18.20

9,45

RAGIO 3 (VHF) 6.05 • Drema:

A. Ecclestone, W. B. Enden, Professor A. Frahlich, M. E. Howard, the Rev Dr G. F. Nuttall, Professor H. B. Seed, and D. I. Williams.

and D. I. Williams.

Sheffield

Scalor technier: D. R. Triger (medicine). Lecturers: G. W. Beaute Ipsychology); D. D. Gliny idrision of education); R. Kay Iprobability and substites). Demonstrator: L. Harvey Ipathology!; Senior experimental officers: R. Constn (cleenade nod electrical engineering); B. F. Taylor (cleenstry). Part-time sub deans: A. P. Fowcett (faculty of architectural studies); C. M. D. Ross (faculty of occidency). Purt-time homorary iccimers: D. Christine Chester imedical microhiology); C. C. Ridar [bluchesulstry); S. Tomilasoo (cheulcal pathology). Port-time homorary clinical lecturers: Margoret Eostwood, E. L. Priestley (paediaries); F. P. Ryan (medical goatrocoterology); R. J. Sokoi (maematology); Port-time homorary posignatione clinical inters: G. B. Powett (Routierbam Hosphal). A. Singer (Jessop Hospital). Part-time homorary clinical unters: G. B. Powett (Routierbam Hosphal). A. Singer (Jessop Hospital). Part-time homorary clinical unters: S. R. Hreman (medicine). C. A. Dyer (uralogy); Jean F. Harrisoo (haemabology); Port-time homorary research associate (Laha M. E.

less (general medicine). Partillae hon-orary rescarch assistant: Laha M. E. Shouman (pharmacology and thempau-

City of London Admissions officer: M. A. Miller. Secretary: R. J. Furlong tpostgraduate studies]; Deputy academic registror: B. J. High.

Noticeboard is compiled by Patricia Santinelli

7.40 Aris l'oundallon Course ! Boccales :
A Discussion (A1/0) : prog 171.
8.05 Scionce | Dustaition Course : Cett
Dynamics | 21 | (3100 : prog 161.
9.50 Negleme lice Foundallon Course :
On the Surface ' [M100 : prog

1.00. Iko Buriaco (M100 : pron 1.00. Iko Buriaco (M100 : pron

BAOIO 2 (VHF 1DESSI : prog 7)
B.00 As Algorithmic Approach to Compilation introduction to Data Biruc- Tuesday June 7

Open University programmes June 4 to June 10

nie (7263; Irag 14.

2) Int Benes of Socialy: Brickworker

1) It! prog 14.

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16.20* Carr knitte House and Consciousness [UE-21]; its state of the UE-21]; its state of the Consciousness [UE-21]; its state of the UE-21]; its state

Chairs 🐫 🖟

Dr William Mainwaring, head of the Amirogen Physiology Department of Androgen Physiology Department of the tamerial Cancer Research Fund, the tainerial Cancer Research from London, has been appointed to the thair of himbenistry at Leeds University from Deroher I.

De Martin Herbert, sentor lecturer in the school of social work, Leicester University, has been promoted to the chair of social work and directorship of the school.

Recent publications

Case Studies for Practical Truining, edited by Richard Ayres, assistant directer and head of training aervican, British Assuciation for Commercial and Industrial Education, is published by BACIE, 16 Park Crescent, Lundon WIN 4AP (£3.95 in members and £5.95 in ani-members]. This linok is the result of Part Two of the BACIE "Techniques of Instruction" course which is concerned with the use of case studies in training. For this port of the course, each member is required to write a cuse study hased upon a situation which has occurred within his or her own experience.

Training Volunteer Organizers, National Institute for Social Work Papers No. 3, in a study by Kay Richards, senior lecturer in accial planning, National Institute for Social Work Iavallable from the Librarian of the institute, 5 Taviatock Place, London WCIII 985, £1.10). It exanoloes the rolo and problems faced by volunteer organizers in die health and social services and is based on the work of e joint training project for vulnoteer organizers established in 1973 by the Institute and the King's Fund Centre.

Perticular attention is given to the programme content and teaching methods that are oppropriate to courses for volunteers and recummendations are onado conteering future training policies.

Tyme Polytechnic.

"Itrilish Pherry: Inheritance, lainlscape, location" a pactry conference
is in he held in June 3 and 4 at Fyvie
Itali, Polytechnic of Central Lundon,
309 Regent Street, Landon WI. Twenty
two British phets will read and discuss
litely poeny in the terms of the question: "How and where do you locate
yourself as a litritish poet oow?"

A course on "Malhematics, education
and teachers", organized by The Institinte of Mathematics and its Applications, will be held on June 16, in the
Scientific Scolety Lecture Theory,
Samille Row, Lomion S.W.1. The first
session will deal with the problems of
limital tradining in the colleges of educadion. Further deadls from the secretary
and register, The Institute of Mathemutics and its Applications, Maliand
House, Warrier Square, Southeod-onSea, Essex SSI 2JY.

"Differential equalibus connected with "Differential equalibus connected with isospectral deformations of Linear operators" the 1977 Bardy lecture will be delivered by the Limiten Mathematical Society's sixth Hardy lecturer, Professor Jurgen Moser of the Connaut Institute of Mathematical Sciences, New York on June 17 In the Geological

Society, Burlington House, Park Moser will also be letturing a full universities from June 3 to [2] Elementary Latin in universities "Elementary Lath in universities" with special reference to classical civil-lation courses, a half-day afternoon conference is being held today in the council chamber of Leeds University. Speakers include: 10° P. V. Jones, Cambridge University, Mr. J. E. Sher-grood Suith, from London University and Or T. J. Sanders, of Newcastle Int-resity.

A. J. l'OINTON, National Secretory, Association of

Controlled Pulses

12.55 | The control of Section 1 | 10.00 |

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15.

LETTERS TO THE EDITOR

The academie's pay structure

native careers than less qualified teachers and therefore need higher

18.3.2 (Historius (1992) 1993 In 18.3.2 (Historius (1992) 1993 In

Plight of clinical staff

Frankly the position in dental schools gives rise to even greater concern. In contrast to the chaical teaching in teaching of medical students, where a high percentage is done by NHS staff, approximately 80 percent of clinical teaching in dentistry is the responsibility of academic staff. The only staff in a dental school that have an on-call commitment are those associated these positions are deadly and the staff in a dental school that have an on-call commitment are those associated.

Sheeter, Bertlanger Hand, John 1967

The academic's pay structure

exist to those experienced in medical schools. The threat to dental and C oterit awards to the same cluestion in the universities is people by the NIIS troud represent very real ond cannot be over-

ROY STORER. Clinical sub-Dean, The Dental School, Tyoe.

Sir.—Clive Cookson's article does not reveal the full seriousness of the position regurding so-coiled "preclinical" teachers with medical qualifications.

One reason why the boundaries between the templing of page and applied medical tolenees are becoming increasingly blurred is that the time available to, for example, angeomy, has been reduced owing

these leachers are disadrantaged with respect to professionally relevant onside earnings, it might be added that they are also disadvantaged us regords pension, since their total number of years of service is required to the state of the s vice is generally less than that of their non-medical colleagues, duo to

In reality, with the companies of

mashed this period. The assimilar for mitch of this period. The assimilar four of the CATs at university salary scales did not give CAT teachers, though changes in the organization of the catters, though the length of the promotion ladder for funlor clinical acadeous and this applies just as much to dentity as to medicine. There are 13 points on the locurer (clinical) acadeous and this applies just as much to dentity as to medicine. There are 13 points on the locurer (clinical) acadeous and this applies just as much to dentity as to medicine. There are 13 points on the locurer (clinical) acadeous and this applies just as much to dentity as to medicine. There are 13 profits on the locurer (clinical) acadeous and this applies just as much to dentity as to medicine. There are 13 profits on the locurer (clinical) acadeous and this applies just as much to dentity as to medicine. There are 13 profits on the locurer (clinical) acadeous acadeous and this applies just as much to dentity as to medicine. There are 13 profits on the locurer (clinical) acadeous acadeous and this applies just as much to dentity as to medicine. There are 13 profits on the locurer (clinical) acadeous acadeous and this applies just as much to dentity as to medicine. There are 13 profits on the locurer (clinical) acadeous acadeous and this applies just as much to dentity as to medicine. There are 13 profits on the locurer (clinical) acadeous aca

aries cover a very wide range.

Comparisons between the salaries of teachers and civil servants have irequently been made. Since both and education groups, comparison of starting salaries and corect earnings may be regarded os relevant to recruitment. Career earnings depend ou changes in the exponsion and its pattern of organization as well as the salary scales. It is difficulty to recruitment to instify comporisons fur particular grades and such computisons will not necessarily lead to the same conclusions as comportions for isons will not necessarily lead to the same conclusions as comportions of the sulary structura us of whole.

The consultant contraction as the contraction as the salary structura us of whole.

The consultant contraction as the contract contract salary would be saintly particular grades and such comparisons for the sulary structura us of whole.

The consultant contraction as the contract of the contract salary would be called a departments of danted schools. The threat to dental solution of the UGC salary bill.

The same sum distributed in B and contract to the same of the contract of the same sum distributed in B ond Consultant proposes to the same sum distributed in B ond Consultant proposes the contract of the same sum distributed in B ond Consultant proposes the sum of the same sum distributed in B ond Consultant proposes the sum of the su

o very much someller proportion of the Health Sorvica's annual conoultant salary costs.

oultant salary costs.

As shown in the THES article, the number of nedically qualified physiologists and biochemists is (only is likely to remoin) very much smaller. It may therefore he estimated that the sum of £1 million and divided anythin between the estimated that the sum of F1 million p.s., divided equally between tha UGC and the NHS, would provide clinical with contract salaries and merit nwards for oil senior medically qualified preclinical teachers. DAVID, BOWSHER, F. Reader in Anatomy, University of Liverpool.

Hacorory Collandiant, Mersey R.H.A.

time available to, for example, angeony, has been reduced owing to necessary additions to on overthe clip University.

The City University of Item devices an accessive of overleast in lopgoraphicol for its own-sake and comparations of extending the city color is not initious worrant that the color in the city of th

0.40

MAGIO 4 [VHF]

Monday June 6

24.04 Decision Making in British Government and Nationalized Industries
(1740) Prod 20
00.20 Managagant in Succilon The Educators, Part 2: Operation Spear
00.40 People and Work: Work Meanings.
(106331: prod 7)

"Cognitive Psychology: his impact on legaling and reaching in higher educa-tion", the third interpolational confer-

noo", me inim international tunter-ence on inquaving indevesity teaching, will be held from June 8 to 11 at New-casile Polyirchnic, Further details from Mr de Winter Heltson, Faculty of Edu-cation and Humanities, Newcostle man Tyme Polytechnic.

3 (VHF)
Sectal Psychology: Conversation with Irik Erikaut, Projestitus 3 (1982); prog it.
Illistory of Mathematics: Dillitelog of Illistory of Mathematics is bittelog of Illistory of Mathematics in the Well Indian Project in the Project in the Project in the Project in the Indian of Illistory in the Illistory in Illistory Illistory in Illistory Il Partitions in Was a base of the life of th

Hopiscomeni Programmas for North Scotland derits | Latitude | Localide | 1904 | 1904 | 11 | 1904 | 11 | 1904 | 1904 | 11 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | 1904 | Problems of Philosophy: Parcopilon | Problems of Proposition of Proposition of Proposition of Proposition of Problems of Philosophy: Parcopilon | Problems of

Wednesday June 8

and Trainmany, interpretate by Sub-stituting (SS1211); plon Hr. Technology for Trainman, Structures and Materials (Ph. 271); pour sy-licetromagneties and Decironals; Al. Measurement and Power (TS282) prop 97.

vinyl Emlorida Processes; 20.40° Animals under Stress; Sure OffRegional Analysis and Developmont: Industrial telecation in fileHighest (3.5%); jung 1. Thicogo; The Sure (21, 1.5%); area for the Sure (21, 1.5%);

Intelligence Scale 2201; prog 14; 11.00 Itrame: Peer Gynt 1/550; lave 10.20 The Earth's Physical Recourses; Buring Bank Holiday, no OU broadcasts this march 1/550; lave 10.20 The Earth's Physical Recourses; Buring Bank Holiday, no OU broadcasts this march 1/550; lave 10.20 The Earth 1/550; lave 10.20 The Eart 8.40 Environmental Control and Public Health: Chomistry of Political Water 191272; prog 41.
7.08. Ceology: Addomorphism and Matamorphic Doctar 62.5. prog 41.
8.30 Interface of Participation and Application 1 MO7141; prog 51.

Application issues of the property of the prop

1 C

Mrs Williams must stick to her own ground-rules

As the date for the fluid decision on the reorganization of initial teacher training draws closer, one is struck by the increasing desperation, emotion and irrelevance of same af the claims for survival.

the courage to lead the way in entorcing a two-A level cutry standard and an all-graduate output have had no easy task over the past few years, when teacher unemployment and its unendant publicity have led better-qualified sixth-formers to lank for other higher checulou courses.

Mixing genres and genders at the University of Penzance

The outher is usistant first autonomy that is remarkable by interBuckinghumshire College of Education.

Lituration.

Although the universities still retain an interstandards, there are some who batever that the grip of the state is becoming it is to tight for scademic health, and this feeltest found expression in ane of the imnovstest found expression in ane of the imnovstest found expression in ane of the imnovstest found expression in an ene of the imnovstest found expression in an energy fo

Ixing genres and genders at the University of Penzance

we subtitude the forest process of the death search in the search of the search in the search of the search in the

ous presence of the opposite sex.

It is elso worth remombering that in spite of the chenges British universities still praduce the choopest gradueto in the world. Only one nagging feer remeins, namely thet the student todey does not positively enjoy his university experience as much as his opposite number of 25 years ago; certainly not es much as I did myself in the far more nustere, end probably over-disciplined, days of not 25 but 50 years ago.

The nuthor was vice-choncellor of Yark University from 1962 to 1973.

lecturers, principals, or HMIe.

But the traditions, the nature of the courses, and the experience of the staff all tended to set further education apart from the rest of the educational system—a back weter little known to the public et large, or eveo to many of those concerned while its administration.

The far-reaching changes made since then have owed more to accident or individual inlitiative than to conscious planning. Substitution, for instance, of the SC/HSC group course system by the single subject GCE system, well suited to part-time study, brought from e bridgehead in the general educational systems. Some the growth of tutorlal and systems are now in the public attended to set further education of the educational objection for the educational objection for the educational objectives of train with the formation of TEC and BEC.

For these courses the accelerate disport for liberally. For these courses the acceleration of the formation of the courses the acceleration of the courses the acceleration of the formation of the course of the courses the acceleration of the course of the system. Soon the aposties of strict in the public at the first administration.

The publication in 1955 of Libarni Education and enriched.

More fundamental changes are now in train with the formation of TEC and BEC.

For these courses the acceleration of the courses the acceleration of the course of strict in the formation of the course of the formation of the course of strict in the formation of the course of the formation of the course of strict in the formation of the course of the middle and enrichad.

More fundamental changes are now in different in the formation of the course of the formation of the course of the formation of the course of the middle and enrichad.

More fundamental changes are now in different in the different interest.

For these courses the accelerat

comprehensive "cummunity campuses" have appeared, as far example in Sheffleld. The l.e.a.s have, moreover, become the chief sponsora of short-term residential solut education, and now control over 30 colleges compared with the six or ao in 1952.

A vital factor in this growth has been e change in the type of J.e.n. staffing. In 1952 lacel authorities employed very few full-time adult educators, adman all the work being carried out by untrained part-timers. By 1977 they had nearly 1,000 with a special full-time commitment to non-vocetional adult education.

rediction.

With this grawth has come the rise of a new professional baily, the Association for Adult Education, and much greater ettention to training which in 1952 was generally viewed with disfavour. Since then several universities have developed edvanced diploma and higher degree courses for experienced adult educators, and some lages heve devised their awn schomes of training, perticularly for port-time teochars of adults.

Other features have been the creation end development of the Open University, new approaches and methods in the use of broodcesting, libreries, art galleries end minsenus, and the growing strength of the National Institutes of Adult Education in England and Wales and in Scotland.

Despite financial threats and the general problems of economic depression, the odult education seems in the seem one of vigour, enterprise, enquiry and planning, and of overall expension and success. The real achievement of the querter century is thet adult educadan is now reedy to move from marginal to a central place in the aducation spectrum.

ebsent. The administrative regime was consciously blerarchical and benevolently leged, assigned by inadequate selection have occurred. As a spin of from the audent memorial wind positively regime with the universities in the uncritically grateful for what they were about to receive, and to dedicate themselves to an austere lifestyle, free of diversions and frivolities. The most sble and persistent, after a decode or so of avoiding blacks of the new educationally underprivity from Outs is it aven more dramatic changes leged, assigned by inadequate selection have occurred. As a spin of from the audent troubles which been the universities in the uncritically grateful for what they were about a receive, and to dedicate themselves to an austere lifestyle, free of diversions and frivolities. The most sble and persistent, after a decode or so of avoiding blacks of the new educationally underprivity from Outs is it aven more dramatic changes have occurred. As a spin of from the audent troubles which been in the division of the interest of the section of the secti

austrice intercyle, tree of alversions and frivolities. The most sble and persistent, after of decode or so of evoning classes on five nights e week, might emerge with an externol London honours degree; many of those who travelled this arduous route were to make distinguished contributions to education as lecturers, principals, or HMIe.

But the traditions, the nature of the courses with their first firm base of full-time day work.

The publication in 1955 of Liberal Educational series and entitled wide-spread discussion of the educational objectives of technical college courses, and the experience of the staff all tended to set further education apart from the public et large, or even to many of those concerned with its administration.

The formers for GCE A recountry now come from FE colleges where (excluding HE) they compare wearly helf the country now come from FE colleges where (excluding HE) they compare nearly helf the full-time from the inclusion of GCE courses or e subtended to set further education in 1955 of Liberal Education in 1955 of Liberal Education in Ingredients have been changed interest ingredients have been changed and enriched.

More fundamental changes are now in the indication of TEC and BEC. For these courses the academic rola of the content, amblence and ediministration of the content and their rest in the country now come in

system.

seminer systems and project work has

This was repidly enlarged by the develop- chonged the role of the student from possive. The outhor is principal of the Cambridgement of full-time courses, first to meet the recipicot to active participant in the class-shira College of Arts and Technology.

The outhor was formarly director of the department of adult education at Monchester University.



rurther/Technical ebsent. The administrative regime was consciously blerarchical and benevolently authoritarian.





Then one now: 25 years of student style

af e 10 per cent cut in Government grants; in 1977 some feer e 100 per cent cut. More significant, however, heve been chengee in concents. At the earlier dete most peopla thought of "edult education" as the provicion of fiberal studies by university extranural departments and the Workers' Educational Association.

These were the agencies which led the great campaign of protests which brought a withdrawol by the Minister of Education, and a famous letter from Churchill to the Trades Unian Cangress in which ho declared his bailef in the importance of adult education. In 1977 must accopt a wider definition of edult education as embrocing all forms af non-vocational education for adults, and the denger is perceived more in terms of the provision mode by the local education authorities.

The l.e.o.s heve become the major providers. Since 1952 most have completed the transformation of the old "night schools" into centres offering courses in such subjects as croft, music, drame, languages and keep flt to a more moture ege group, noarly two millian strong, in which there ere at leest twice es meny women es men.

The more energetic eurnorities have also

developed day-time provision for adults, creating full-time centres, and, following the lead act by the pionoer villaga colloges of Cambridgeshire, heve approximented with many styles of community collages in which there is a combination of fecilities for adult and child characters.

The most notable of these are in Cumbrie, Lelcestershire and Gwent, but even more

A furious contraversy has bruken without violating the chiese

the lecturer, Professor Michael Selzer, taught—of violating his academic freedom. Other academics have said working claudestinely for

the CIA is incompatible with being

ndultted links with the CIA in December. His colleagues in the political science faculty tried to

have him sacked, saying his intelli-gence-gathering activities worranted his removal from the college, where

Dr Keller sald there nould not be

rished to work for government agencies, provided they did so

Professor Selzer, who admitted that he had agreed to give the CIA

information be came myross on a research trip in Europe, is still teaching at Brooklyn. However, he by due to be considered for tenure

this summer, and his callragues have already said that the depart-

The question of CIA activities in

American universities surfaced last spring during the Schare Commit-

teo hearings on intelligence activi-

teo nearings on intelligence activi-ties. There was cunsiderably anger of campuiss when it was rerealed that the CIA had oved university teachers to inform on the activities of other tearliers and students. The American Association of University Perfectors and accurate

Professors made a strong profest, and draw up guidelines to try to

prevent such a thing happening

has now become a more overtly political quarrel between left-wing

The delate over Professor Selver

ment will not recommend it.

Professor

"good teacher and honest

Times Higher Education Supplement (London) Tel.: (202) 638 6765

Vallonal Press Bullding

Carnegie urges clearer collective bargaining

for all the organient over collective thouships to individual compasses bargaining in America's public colleges and universities there are three central issues that states, unitarity that is the council finds, versity inhitinistrators and teachers' unions have to face: who decides on inionlendon? What is subject to control through collective bar-

guining? Who le the employer? Those, at least, are the three main questions that the Carnegie Coun-cil on Policy Studies in Higher Eduentium identifies as being at the heart of all negotiations.

lit a new report the council gires Its uwn answers to the questions: it says membership of the group that decides whether or not to bar-gain collectively should be limited o a chilege's teaching stuff or professoriate, that collective hargain-ing should not corer such matters os the content of research, courses instruction and the selection and promotion of teachers to tenure; and a college's governing board rather than state executive officers —should be designated as tho

employers. The report includes an analysis collective bargaining structures seven states, as well as a hock ut how existing legislation has dealt with collective bargaining

The composition of the election unit-"the original building block for collective barguining" — is extramely important, the council thinks. At state level, those election units should have a membership limited to those whose occupational status la defined as membership in the faculty or professorate.

It should also extend to eligible faculty membars with common relationships to a single institution of induly circumscribed and political intrusions late academic decisionspriata, to those with common relationships can be made easy."

system.

In practice, the council fluds, large election groups that go beyond established faculty constituencice for governance are often permitted. It therefore believes that restrainte on scope of coverage may be neces-sary to safeguard established faculty

influence on governmee issues.

In foor of the seven state studies.

New York, New Jersey, Pennsylvania and Inwali, an agency of the state executive office acts as the emplayer and conducts negotiations for public colleges and universities. The study found that the nathmal trend may be towards identifying the chief executive as the employer he chief executive as the employer he under to bring the coordination of pay policy for state employees into a single office under the control of the Governor.

This, the council argues, is a threat to institutional nutonomy.
"We recognize", the council adds, "that some institutional presidents accept of even wolcome puli-sical authorities bacoming the conployers, for this allowe the presidents to aroid many responsibilities and hard decisions and permits them to assume the more popular rule, at loast in the short run, of business agont' for campus constituen-

cies, passing along all requests". The President should represent the members of his institution but he should also select relat he presents, help to reconcile opposite paints of viow, make decisions and take rospansibility. "Otherwise political uniharities can become presidents by default, the powers of the president can bu seriously

FT S4m Harvard aid for arms research

Spying: an academical respectable profession? tlarrard University has been given a grant of \$4m by the Ford Foundation for research, policy assessment and teaching in the field of arms out in the columns of the weekly Chronicle of Higher Education and

The grant will help puy for a entre for Science and international affairs as the first of six major research centres in the Juhn Fizzeral Krunedy School of Government.

The Harvard programme in public policy and management will raise the lad endowment by 1980 of \$5.6m.

The gift is by far the largest in ifarvard'a public policy programme. Incused Brooklyu College—where the lecture, Professor Michael in server the locatore, Professor Michael warfor of the Cold War and says Hook was a need of the server in the compared with Raise other at the City University of New York who mainted that he had provided information for the Central Intelligence Agency.

Professor Sidney Hook, a senior Vellow at the Honver Institute at Stanford Haiversity and a strong opponent of community over the attenuet to the missions for the Foreign Of the Sidney Hook as senior Professor Leonard Marsk of the occurses Professor Hook and says Hook was a need of the cold War and the Cold War and says Hook was a need of the cold War and the Cold W

dent, said tha grant ensured that the School of Government "will enjoyee in the decade alread as a capable of contributing to crucial issues of public policy". The Ford Poundation helped Hurvard set up lis antiversity-wide programme for science and international affairs in 1973.

The director of the new centre will be Dr Paul Doly, professor of biochemistry and n pioneer in his removal from the college, where nuclear arms control. He said the he has taught for the past four grant would strengthen the work in international arms control that had been carried on at Harvard, the Massachusetts Institute of Technology and elsewhere in the Boston on evidence of lungraper activity by Professor, Sulvey

The centre will continue the work of the programme far science and any charges against him, and college international affairs which has incinhers should be free if they focused on Suviet-American strate-gic arms control, nuclear proliferaregional security problems, the patential for conflict arising from international competition for energy resources and the Impact of national science policies on International efforts to deal with global

The centre will also continue to spinsor special education projects.
One innovative programme which
has just ended involved eight
journalists—four from the United States and the others from Britain, Franca, Japan and West Germany— coming into residence for three munits of intensive education and dialogue on arms control and international security. The representative from Britain was Heavy Stan-large, defence correspondent of The Times.

Each year under the former pra-

gramme about 30 schulars and professionals have come to Harvari from American universities, and round industries and from Burope and the Middle East. Their work has led to the publication of more than 100 articles and baoks.

and right-why academics. It harks hark to activities during the McCorthy cra. Professor Back said an individual should have the academic right to undertake a scholarly research project related to the defence of a fice soriety, on which a free training during the defence. which a free university depends.

which a free university depends.

Prufessor Hook said it was not wrong to keep quiet about such octivities. It have known whole laboratories and departments on the edge of a brenktbrough to impore a silence on themselves for a period without in any way affection the without in any way affecting the responsibilities of their leaching." He udded in an article in the hronicle: There are teachers in criminal law classes and schools of journalism, nor to mention practise without posing a sorious bing lawyers, who cannot tell all they the independent and interpretable to the independent and independent and interpretable to the independent and interpretable to the independent and independen

An argument is raging about academics working South Africa

accusing Marsak of ments A fine ocademic balls by

Reyoud this persond

however, the question of the the CIA is still troublet to ber uf universities, but it issued a report of king examination of the many examination of the many examination of the many dards for acodemics bear add that the university bas "no pack) leader of many or are the leader of the

ledge of past or pieus relationships at llargard?

The report makes for a tions. First, because of a national tensions, the Weed!

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and universities must be must to protect the integrity de-sities and the academic sets

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Harvard should not so intelligence operations is CIA, nor should its member their numes or positions is industrument of material to the misheading or nature lindividuals should not the CIA in obtaining the ciar; "services of another se of the Harvard Community." We recognize ", the report that our recommendations

that our recommendation

to perform certain tasks. It

willing to suffer.

"We do not believe that "relationships between the Claim the academic community, as on the claim of the community, as on the community of the community.

by the select committee Frited States Senate), can

that such contracts on

following categories:

Campus cuts begin to bite

CAPE TOWN The effects of the government's no growth April landget are being inteasingly felt by South African universities.

The budget, designed to ent government spending to the bone

in an attempt at rectifying the busines of payments and restoring overscas confidence in South Africa's economic policies, has further turned the screw for higher

Already several research cuts have been made and austrily measures implainented at most nuiversities to combot growing deficits.

The only positive feature has been some increasa in expenditure on black education.

black education.

High interest rates and apiralling costs and prices, as well as a 2.3 per cent cut in government subsidies to universities early this year, have already had a widesprend effect. The freezing of yearn posts, reduction in research grants and cuts to the funding of student majous have become cummouploce at the mojor judgersties. at the mojor universities.

Despite the introduction of aust-Despite the introduction of austerity pragrammes, many universities are rouning up large deficits—
In Rand (£2m) at Rhodes University, Im Rand at the University of the Witwatersrond and the Rand Afrikaans University and 860,000 Rand at the University of Natal.

These are likely to increase If student numbers full or empital ex-

penditure increases.

The University of the Witwatersrand has ulready frozen some 80
posts. Rhodes University, as part
of a programme to cut costs by 10
per cent, has stopped replacing
academic staff on leave and has
lunposed limits on energy consum-

inposed limits on chergy consump-tion. Stellenbosch University has scrapped a plan for a satellite campus at Believille, near Cape

Town.

The cut in government subsidies, which averages 2,000 Rond perstudent a year, has been a heavy blow. According for 60 per cent of their income, the universities are now looking in alternative sources for financial assistance. Witwatersmand, for example, is seeking an extra im Rund annually from the private sector, and several other campuses have followed suit in looking to large corporations for support with niding interpolations for the has merely been transferred from other government departments to controlled in the massing and the first in the fir

In addition, the universities are becoming increasingly disenchanted with the subsidy system itself. Basad on the ratio of academic staff th students, it is calculated on nu nverage of 1/16th. The universities, however, aim for 1/12th which they believe to be a more realistic figure. As a result, institutions with a low ratio find the subsidies particularly inadequate.

Stellenbosch University, for ex-ample, despite a 15 per cent in-deducation.

cluding the purchasing of new equipment and the sending of academics to conferences, have also been hard hir.

The soon-to-be-completed black medical school at Ga-Raukuwa, near Pretoria, the first in the country, is to receive 7m Rand while the other black universities will get a rotal of 1 m rand. total of 11in rand.

But edocarioulsts have attacked the allocation of funds to univarsi-tles at the expense of black schools which will receive some 14m Rance as part of the government's planned black education reform. They point out that the universities are expanding at the expense of giving maro blacks the chance of e university education.

Universities face more pressure as Labour wins election

AMSTERDAM
Higher Education Act which would incorporate a wider variety of less specialized courses, as well as reemphasizing Dr van Kemenada's With the victory of the Labour Porty

With the victory of the Labour Porty in last weak's general elections, the return to office of Dr Jos van Kemanade, tha 5ocialist Education Minister, for a second tarm fa a socialist-fed coalition government seems almust certain.

Because uf his financial hard line taken uguinst the univarsities over the past four years Dr van Kemenode's passible return to offica will clearly not be welcomed in some university circles. Controversial points in his policy are and will remain: restricted odmission to panisher university courses, shorten the university of less' specialized courses, as well as remphasizing Dr van Kemenada's long-term plan to integrale all higher education.

A further controversial area is the 1970 University Reform Act aimed at the internal democratization of the university should be given a say in the formulotion of policy—the "weight" of their voice depending on their "status" within the university. There are complaints, however, that the Act has created power ing university currses to four years ond gradually intograting university education with the rest of the postninimisory soctor.

Concern over

from Guy Neave

There are complaints, however, that the Act has created nower struggles and an unprecedented

amount of paperwork resulting in apothy among those with represen-tation on boords. Clarification and improvements to the Act will clearly have to be made.

Rash of protests over student conditions

on sirike during the past 1. Some inycotts of lectures till continue and more are to be expected. The specific reasons for the strikes, rary, but taken together they must be seen as on expression of a general feeling of uncertainty, distillusionment and bitterness.

The most widespread and hest-coordinated of the protest actions ls boycott of lectures and practicals by about half the Republic's 37,000 nedical students at 14 of the country's 27 medical faculties.

try's 27 medical faculties.

The demands of the medics are clearly defined and are supported by many of their teachers. They relate to the new general pattorn of medicol courses, and mora precisely to the last year of the six-year programme, the so-called practical year.

Under the old regulations work gramme, the so-called practical year.
Under tha old regulotions work in hospital followed the final exomination and was regarded as the initial stage of a medical practitioner's career. The medical ossistants, as theso junior itoapital doctors were called, had contracts and received a callet.

Under more recent procedures the practicul year, to be spent in specially designated and equipped "teaching hospitals", its become part of the undergraduete courae. The year is divided into three blacks, two of which—internal medicine and aurgery—are compulsory. The third epeciality can be diosen by the student.

The shortcomings of this new approach, which came to to operation in October 1976, were soon apparent. They were highlighted by the tecent Wissenschaftsrat recommendation (THES, April 15) which found in particular that general medicing was given very little place in this new training scheme.

The students claim that because

The students claim that instead of being less overburdened with book-work, this has actually lacreased, and they east serious doubt on the quality of the new type of clinical training.

They are aspecially incensed that now that practical hospital work is part of their degree programme they have no contracts, no holidays and no pay. Nor, ie there provision of allowence for accommodation or food.

part of their degree programme they have no contracts, no holidays and no pay. Nor, is there provision of alliouvence for accommodation or food.

In addition to the serious fluencial position of many atudents the to insufficient grams (THES, May 27) other major causos of the current wave of student protests are related to the gradual implementation of the introduction of tough disciplinary procedure egainst students a fourth. Underlying all the introduction of tough disciplinary procedure egainst students a fourth. Underlying all the introduction of tough disciplinary procedure egainst students a fourth. Underlying all the introduction of tough disciplinary procedure egainst students a fourth or control of tough disciplinary procedure egainst students a fourth or control of tough disciplinary procedure egainst students a fourth or control of tough disciplinary procedure egainst students a fourth or control of tough disciplinary procedure egainst students a fourth or control of tough disciplinary procedure egainst students a fourth or control of tough disciplinary procedure egainst students a fourth or control of tough disciplinary procedure egainst students a fourth or control of tough disciplinary procedure egainst students a fourth or control of tough disciplinary procedure egainst students a fourth or control of tough disciplinary procedure egainst students a fourth or control of tough disciplinary procedure egainst students a fourth or control of tough disciplinary procedure egainst students a fourth or control of tough disciplinary procedure egainst students a fourth or control of the procedure egainst students a fourth or control of the procedure egainst students a fourth or control of the procedure egainst students a fourth or control of the procedure egainst students a fourth or control of the procedure egainst students a fourth or control of the procedure egainst students a fourth or control of the procedure egainst students a fourth or control of the procedure egainst students a fourth or control of t

for Institutions of Higher Education colleges hare gone on strike because in future unity a very small percen-tage of their number will, after com-pletion of their course, he allowed to transfer to university and their obtain the covered university degree—the once highly praised and recommended "second education route" for pupils without full university entrance qualifications. This

is now ustal by over 30 per cent of students at these colleges.

Prospective students are also more and more frustrated about the liquistices and inadequacies of the manierus clauses, as even larger numbers of applicants are turned eway.

oway.

And in spite of rovised procedures cushrined in the Act and Constitutional Court decisions relating to student capacities mony Linder seem determined to reduce the number of existing student places, especially for fututo teachers, railer than to lacrense them.

them.
The Act luposes on the Liluder governments ond parliaments the obligation to adapt their own university education to ha principles. This they are in the process of doing, sometimes very reluctantly ludeed, and it is ogalust a variety of such legislative proposals that studente in several universities are now voicing their protests.

Tho main issues include the longoverduc course reform which involves the introduction of a Regelstudienzeit (normal length of study) with the possibility of n student eventually being sent down. By shortening the time needed to obtain a first desired. tain a first degree more student places would be created. The stu-dents argue that this will restrict their traditional academic freedom.

The strengthening of the position of the professoriat in internal decision-making processes is a further issue. The students feel that this would nullify many of the gains and advances towards internal

or at least the restructuring of their function from a political to a merely social and educationed one is a tiltd

Research councils' shake-up aims at greater flexibility

from Mike Duckenfield

A similar later by staff at colleges of admined at its possibility of a further work of the polyment of the po

STOCKHOLM saurchare working on state-spon-five national man end three others, represent-we been smalga the authorities, appointed by the government.

The elected anembers ere chosen

Bleak outlook for Atlantic campuses

Mr Jeffrey Holmes, the associa-

tion's secretary, said: "It is quite

The future for universities in Canada's four eastern provinces is grim. They will begin to lose some of their best teachers, they will be unable to buy new conformation. The will be no money for unable to buy new conformation. The will be no money for cent. All funds will be swallowed up by inflation; and by coormous increases in fuel costs (electricity in this tegion is going up 40 per unable to buy new conformation. There will be no money for closure. We increase in an analyze a large control of the control o unabla to buy new equipment, research groups will be broken on, there will be e rash of campus strikes and the quality of educa-

tion will inevitably deteriorate. This bleak prospect has just been put to the Premiers of Newfoundiand, Nova Scotla, New Brunswick and Prince Edward Island by the Association of Atluntic Universities.

tion lies in amalgnmation and closure. Mr Holmes said this was often not possible for political rensons—indeed many of the newer institutions, had been created for political resons

clear that we ere going to losa political reasons. some of our best people over the Pew of the universities did much next few years." Already there was a salary freeze at most universities. graduate work, and many served scattered rural communities, Con-

and the Yempore's of Newfoundard, New Scotla, New Brunswick and the State of Holmes predicted that this would association of Arthurite University and a roth of surface ones, money to run the course and a roth of surface ones, money to run the production of Arthurite University of the original countries, and the surface of the production of Arthurite University of the original countries of the production of Arthurite University of the original countries of the production of th

Budget 'will end education growth' from William Purvis

SYDNEY Academics at Australlau universities and colleges have become so alamied at persistent repuris of an imminent cut in education funds that they have published open ictters to Schator John Carrick, Minister for Education, urging him not to

reduce spending, Warnings of possible entlucks hars been publicly discussed for some weeks (THES, April 22). The Australian Union of Students met with little success when it tried to organize a national boycut of lectures in April as a protest. Now tho Federation of Australian Universities Staff Associations has also

expressed concern. In ou open letter to Schator Carrick the Federation sought on assurance that nothing would be dona to change the government's comminment to minimum growth of recruitment 2 per cent a year in real money

A similar latter by staff at colleges of advanced education

Another step towards economizing in the now term would be the pre-

Republic of Ireland

Sacked dons' fight goes on

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HIGHER EDUCATION SUPPLEMENT New Printing House Square, London WCTX 8EZ, Telephone 01-837 (234

The decline of student grants

next October is that some important fects about students' finances have come to light. The survey of self-supporting students at Essex Uni-versity published this week shows, sinong other things, that the value of the student grant has declined substantially over the past 15 years until now it approaches the level

32 per cent in 1960-61, when it was £255, to 20 per cent in 1976-77, when it was £875. As a percentuge of n single person's supplementary benefit, is hes fallen from 196 per cent in 1960 to 132 per cent this year, but supplementary benefits are not expected to include accommodation costs, and making an appropriate deduction from the students' grant for this, the decline 1s from 147 per cent to 99 per cent.

In practice, however, the position le far worse. A recent survey by the Department of Education and Science showed that nearly 70 per cent of students on mandatory grents did not receive the full emount because their purents did not (often were unoble) to pay their contribution. In oddition, skinough the grant is officially intended to cover Esster and Christmas vacations, students have until receiv years been able to supplement it by obtaining holiday work. High unemployment has mode this increasingly difficult, however, and so probably for the first time in many years the grant represents the maximum income likely for estudent over that period.

The Feer survey character that

One benefit grising from the in-creases in tuition fees planned for next October is that some important feets ultimate the base of differently—reduced spending an books, an ever-increasing cost. An even larger proportion, 63 per cent, had economised on food.

The dengor, which eeems to have been recognized by the Government with its £50m peckage on grants of nonneed in April, is then the level of the grant will be a serious dislucentive to aixth formers considering higher calucation, particularly to these from low-incume families where there are pressures for an extra wage carner. From October, however, the students lot will be greatly improved. The basic full grant should be £25 a week for the 40 weeks of the year it is intended to cover; the minimum grant is increased and the level of income at which parental contributions hegin is reduced.

The amount was less than asked The dengor, which seems to have

The Essex survey shows that annong the university's graduates. 70 'per cent of self-supporting students in 1976.77 had net incomes of below the benefits devel. But even more surprising was that as much as 30 oper cent of those with greats at 30 oper cent of these with greats at 30 oper cent of these with greats at 30 oper cent of these with greats at 30 oper cent of the everyone. Whichever is best, now ever, there needs to be a revision of income, students are obliged to enter sources of the everyone, students are obliged to enter sources of the everyone. Whichever is best, now ever, there needs to be a revision of the structure of student greats, both in the context of inition fees and there is no reason.

NATFHE ONE Veal**

The start of today's National Association of Teachers in Technical Institution end the Association of Teachers in Colleges and Departments of Education in Institution end the Association of Teachers in Colleges and Departments of Education in January, 1976.

Last year's Buxton conference came after only six months of the NATFHE is existence, at a time when old effective on the transport of the former old effective of the former old effective on the first fall year of operations since its birth through the morger of the former than a token protest. (But there are those who believe the native professional studies, but the great of the first fall year of operations since its birth through the morger of the former than through the morger of the former colleges and Departments of Education in the structure of the profession of the structure of the first fall year of operation since its birth through the morger of the former than token protest. (But there is no feed to the structure of the first fall year of operation since its birth through the morger of the former than token protest. (But there is no feed to the structure of 30,000 would now be morgaled to the first fall year of operation since its birth there are those who believe the second of the colleges and large from a warlety of obj

Last year's Buxton coeference came after only six months of the MATFHE's existence, at a time when old ellegieoces still existed end the benefits of belonging to oce united usien, clearly able to speak for all peachers in the post-school sector of public education, were not epparent to all delegates end less obvious to "grass roots" members in the field.

the year the NATFIE will woon the the trippersent nearly 100,000 further why higher education beaching in all parts of the United Kingdom. in all parts of the United Kingdom.

Any appraisal of the work of this rapidly growing organization must take eccount of its impact on college reorganization and tracher valuable or described as the "gentlemon's organization"—successfully negotiated the Crombie code on redundancies but its small size and single vocation would have made it less effective against the cuts now proposed.

The union is now erguing for the introduction of a four-year Bachelor of Education qualification, benefits of belonging to one united neigh, clearly able to speak for all teachers in the post-school sector of public education, were not epparted to all delegates end less obvious training rundown is compensated by the diversion of staff and material resources to other press.

At, that, conference members in the observed of the conference members in the observed of the conference members in the diversion of staff and material resources to other press.

At, that, conference members in the object of the conference members in the diversion of staff and material resources to other press.

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At, that, conference members in the development is compensated by the diversion of staff and material resources to other press.

At, that, conference members in the development is compensated by the diversion of staff and material resources to othe

tion is also being turned to improve the size of the conditione and security of the many partitine teachers tempological incomes policy operated of the university senior lecturer's played in the section.

On all of these issues unity should not be too hard to achieve, But there are other areas where the distantial section of the secti proposed:

There is no doubt, however, that the nervow confines of traditional trade union activity and to express position. As a result the relativity General section of teacher policy in general, A heterogenous manage places in polytechnics and membership makes achieving agree colleges of advection in 1981 ment on wider issues e skillul teek property.

At the same time the universities of anjoyed a relatively free bargating position. As a result the relativity General secretary dosignate, setablished in 1984 by the National National Association of Teacher policy in general, A heterogenous includes of Advanced Teach the membership makes achieving agree for of College of Advanced Teach Hemilton House, phould stend at 60,000. This week indeed.

University College at Buckingham

Sir,—Mr Brynn Davies' article on the University College at flacking-hom would seem to be animated by political, rather than educational fervour, and the validity of whot he says must remain a motter ut opinion. Ir iloes seem, however, that someono who writes about an educational institution (whether or not be approves of it) should either visit it for himself, or if he cannot spore the time, ot least study such published metorial as is evailable. We do in fact get inquiries not only

nt which parental contributions hegin is reduced.

The amount was less than asked for by the Notional Union of Students, which that steeked a clein for a basic grant of £1,185. But it did yeary with it a sign that the Government was taking seriously the gronts question, in that the level is to be reviewed next year sud not remain fixed for three yours as has been the case.

Ultimately, however, neerely rolsing the lovel of gronts is not going to help those students who do nut receive their parental contribution. Some parents may even make the increased grant e reason for reducing their contribution. Nor will it help the 400,000 students on discretionary awards, the emount of which is determined by local authorities.

Full grants for all students, et present at least, would be financially

Full grants for ell students, et present at least, would be finoncially impossible, end unjustifiable while

Buckinghum Luw students are re-quired, in addition to the "cure" subjects of the profession, required nuthennuics (or the life sciences), and two other subjects in history, literature or the social sciences. Su fur from fluckingham being aurrowly vocational, aur prime interest has been in fluding ways by which a broad education can be used as a preparation for active life.

Our nawillingness to continue negotiations with the Connell for National Academic Awards, was not due to our inabilky to satisfy ucudemic criteria (which as Mr mentation is always of the victure in condemic criteria (which as Mr Davies in the same examples of Mr Davies misstotements of fact:

The says that there are 80 students and 11 full-time staff. There are, in fact, twice that number of students and something like 20 full-time staff with the combersone proceed in any way not in accord with the combersone procedures with the cumbersome procedures and controls which they find necessary to exert in the case of poly-

LETTERS TO THE EDITOR

Finally, if Mr. Duvies cannot even be hothered to study the documents, could be not have had a word in the jobby of the House of Commons with Professor John Mackintosh, MP, who took a seniuar here o few weeks ago, thus joluing a list of other distinguished names (includ-ing Lard Rubbins and Lord Hallshum) who have taken part in our teaching activities in the first 18 months of unr existence? Yours faithfully,

Principal, University College,

Sir,-In the Commons Bryon Davies has goined a reputation as one uf the most sensible commontators un le ducotlon in the fobour Party, so it is a play that he should be so polemical about the University Culloge at Buckinghom. I nemally visited the college not

ing ago out the one impression that I got witch clashes fundamentally with his is regarding the hreadth of its law course. Since it requires students in do languages and mathematics as well as the basic professional ingredients it is proinably irroader than most three-year dogree courses.

Given several years of successful students, the college may win dogree-growling newers from the frivy Council, in the meantime the Government should not be trying in humper the nature ond quality to limit the openings for which the college licenco is suitable.

But Mr Devies's feelings are cleerly a reflection of his party's innete propossity to dislike onything private in education. KEITH' HAMPSON.

Vico-chairmen, Conservedive education committee, House of Commons.

General secretary dosignate, National Association of Teachers in Further and Higher Education.

Sir, it is very much to be in that the ruling of the independent of th

The way forward hould be implementation of the proper the Legalit committee of in-which called for e per hard nt government containing me for an open system of a government, on academic ber student noion recognition it The proposals of the see

The proposals of the second trustees for close far the TUC has been fully divided the Old Firerofters' Guidel little favour with the insupposal of the discussionable on request white standers of the discussionable on request white standers of the discussional that perhaps 50 per entigovernora would be TUC weithat the majority of sudan union supposeed and he of the older from the traditional literation ethos of the colleging wild would wish to be approximately for entry fo education and many bonds ing the trule unions be me

inated by them. The way is clear shadistic reformed trust and promi-partnership with the Depute. Education and Science as the collega in the fit parties that has predominated the

Press Officer, Old Firerofters' Guild E-Julin O'Gnunt Road, Kenilworth,

Academic promotion

Sir,—In his article (7/188, 1).
Peter Willip weltes, "the not persists that the main seed merit for promotion to lecturer is research". A resum of the proportions of the proporties of the proportions of the proportions of the proportions of mathematics suggests that the mathematics suggests that the pictan may be well found, there is no doubt as to will these groups of staff are not ductive in research publicates. At Livernooi, for instance, cent of the chemistry its

senior lecturers, but only if cent of the mathematician examples are 50, 31 and 32 per of the chemista at Abanda Leeds and Southampus ively, compared with only lead of the materials.

Sir—While egreens wilby's general point that it it it in prospects in university is suffered to recent year that May 20), I must carred that over the past of ment that over the past of t ment that over the past two demic years Birminghan he are no promotion within the cent quote for senlor position.

In 1973/74 this university and promotions within the gent and promotions of the gent are promotions. 30 promotions within the a further four promotions of a further four promotions of the quots, thus giving pass of the quots, thus giving pass total of 34. In 1974/75 her promotions in 1974/75 her promotions in 1974/75 her to promotions in 1974/75 her have been no promotion tho current ecceptaic year. Yours follafully, W. R. G. LEWIS.

The Protestant Ethic and the Spirit of Capitalisms has proved the most enduring of a number of looks and essays concerned with the origins, the "spirit" or the "essence" of the economic order with which Northern and Western Europe, along with the United States, asionished the world and established a material, military and intellectual predominance that hes not yet entirely waned. Most of the writers at the turn of the century who contributed to this diterature were Germans. There were two reasons for this. for this.
The first belongs to history. Prus-

for this.

The first belongs to history. Prusals and its creation, Imperial Germany, were in the oge of Breutano, Simbart and Weber still undergoing the transformation to an industrial and urban civilization. The experience was bewildering, terrifying and exhilarating. The Germans knew, however, that they were successors: England, the United States and seldom mentioned, Belgium had all preceded Germany.

Eved a defeated France had begun, if at a slower pace, tho morch into industrial urban capitalism before Prusale. Whence, they asked, came these new modulines of social being, and what was shold accrete core? (It is interesting to compare the Englishman J. A. flokson with the German writers. The sleads with the same metters, but he does not find them obscure, retuiring explanation in revelatory or arcune forces. But behind Hobson lay a long, clear history and the gritish tradition of political economy.)

The second reason for the German universal liverage likes in the backward.

British tradition of poortes economy.)

The second reason for the German luterest lies in the backward state of specifically Germon economic science. From about 1870 in Britain, France, Switzerlond end Austria economic analysis of e "marginalist" kind had been pursued with exciting success. On the whole the Germans remained stuck with their national and historical economics—in which the problessory of so much of Weber may be found—and this very foilure concentrated interest on historical questions and theories of economic bistory and theories of economic bistory which threw into relief questions not of the logic of economic cholees, but of the origins of the new order.

Furthermore—and too much thought the theory of the theory of the new order.

was the question of Merxism. Now, for all the apparent strength of German social democracy, the name German social democracy, the name of Marx was not then one to conjure with. Marx was one, oddly influential no doubt, heterodox thinker among the many thrown up by socialism. Thoso who turned to his Capital found—as an many since—a great deal of imperfectly annissanated economic history and economic theory, but no clear account of the forces glving rise to capitalism or to industrialism, savo is the perhaps innochial enses of English forming and English textile manufacture.

On the other hand there was the claim so elequently minde by Marx himself, that he had inicuvored the law of motion of society, above all of capitells; society. The claim was alerming; was the new order, so incessful but so troubled, also doomed? The Garmans were given to systemetic scholarship—to a large degree they had invented rosearch as on industrial process—and the soswer to the questions of Marxism might be found by the paths of scholarship.

and 16 per cent of the many of the duestions of Merkism ilcians.

These undesirable discretions of Merkism in the latter half of his scholarship.

Certainly this was one of Weber's motivations in the latter half of his scholarly life, though it is genuine vigarity to counterpoise Mark end Weber ilke two prize lighters contheir staff in senior position is the scholar position in the arena of ideology, haps the solution is the scholar position in the arena of ideology, example of Oxford and carried without the senior latter without fully, S. S. S. M. T. H.

Depertment of Chemical language of the content of the latter was first published in language of the content of the latter was first published in language of the latter was first publis

immended century classic. It is still imited pecuniery gain, which have animated, for example, Romen tax farmers, Viking free booters, Jewish and this naw edition? The answers in these queries are not even in the second as the greed for unimated pecuniery gain, which have animated, for example, Romen tax farmers, Viking free booters, Jewish farmers or German bankers, in the second of the fuggers or the Inthofs. In the second of the hese queries are not even in last pass altogether easy and

hiora case altogether easy and his loss Professor G. R. Elton ented several peges of his short supported several peges of his same supported to him the world not heve devoted, in the same supported to him the supported several peges of his supported to him the supported several peges of his supported to him the supported several peges of his supported to him the supported several peges of his supported to him the supported several peges of his supported several peges of his supported several peges of his short supported sev

he Protestant Ethic and the it of Capitalism, by Max Weber troduction by Anthony Giddens), and Unwin, 12.95.



Whatever happened to the Protestant ethic?

Donald MacRae discusses changing evaluations of Max Weber's classic essay on the 'ethos' of capitalism

speca to Weber's orgument end to the different but parallel views of R. H. Tawney's Religion and the Rise of Capitalism (1926). And clearly Blton regords Weber and Tuwney sa misseken.

"Neither the view", he writes,

prise which characterized the centuries after 1600, in some ways enumented from the new cast of maid which had also produced Protespantism (Weber), nor the view that capitaism exploited the peculiarities of the Protestant form of Christianity to free itself fram all restraint (Tuwney), is horne out or required by the facts". But was that Weber's view? (Tawney we may leave nearly, but not quite, to hook after himself in this context.)

text.)
Weber was centrally concerned Weber was centrally concerned in all his writings to make sense of the uniqueness and the specific dealiny of modern western society, however far his researches might take him into remote times and places, to the enclent Orient or to Roman aggleuiture and low. His

like the Fuggers or the Imbofs.

He was concerned with the splitt and the ethic which he believed distinguished one form of capitalism, our owa, from all others, and with one set of factors which permitted and encouraged our capitalism, and which did not opereta in other great societies with developed polities, economies and urbanisms. Why, he was eaking in 1904, are our societies so different from all preexisting civilizations and cultures? One may find his argument wroag or, os I do, partial; but it is out simple, nor yet simple-minded, In a word, then, I am claiming that Weber's essay is a classic of

R. H. Tawney's Religion and the Rise of Capitalism (1926). And clearly Blton regords Weber and Tawney sa midstaken.

"Neither the view", he writes, "that the omburst of material improvement and commercial enterprise which characterized the centuries after 1600, in some ways enumented from the new cast of misted which had also produced Protestantsm (Weber), nor the view decessors, colleagues or successors).

decessors, colleagues or successore). Weher's essny is sociology, port of that high net he never finally wove, and in which he haped to may however value and in bristically, ell of religion, economy and society. It is e part of his attempt to explain the unique configuration and destiny of western society. It is an attempt to answer how for the destroy of western society. It is an attempt to answer how, for the first time, a society could spontaneously engage in those activities we call by the modern cuphenisms of "development" or "modernization". There is one raeson it is still received.

take him into remote times and places, to the encient Orient of Roman agriculture and low. His mind was, I believe, profoundly ambiguous end endlessly complex, but he was never, f also believe, guitty of meroly simple error.

He knew very well about ancient contisism, the history of trade, menufacture and entrepreneurship in the towns of lete medieval and renalssance. Hely and tha Low Countries. He knew, for reasons profoundly implicated in his family beckground as well as in his studies, a great deal both of lew and of the dillon of 1930 by that young Telcott.

Paraous. The pagnation of the text is, usefully, the same as it is 1930, a great deal both of lew and of the long foreword by R. H. Tawney.

Por Weber was not concerned in this essay with all the manifestations of capitalism is understood as the greed for unlimited pecuniery gain, which have an interest of the platory of the subject, part of the platory of the subject, part of the platory of the subject, part of the subject within this world.

its contemporary debate, especially its methodological concerns. Tawney was coocerned above all with what most interests Professor Elton and me: whether, within his understanding, what Weber seld was true. The problem with Tawney is the neture of his understanding of Weber.

of his undergranding of weel.

If Tawney misunderstood Weber, and in part 1 thick he did, it was not that he did not take The Protestant Ethic in context, but that the misunderstood the text itself. There has recently become available in English (Tokyo, 1976) a little book that makes this abundantly clear. Professor H. Otsuka in his May Weber on the Spirit of Capitalism goes to the heart of the matter, and shows that Tawney, like Weber's German contemporaties Sumbart

(whose great work on modern capitalism dates to 1902) and Brentano, felled to make a crucial ser of distinctions. Not as a quitble but as a crucial point, Waber distinguished the "capitalist spirit"—to be found often and widely—from the "spirit of capitalism " which is his subject.

This latter is the generalized arbeits of works ethic which, internalized in individuals, made them the bearers of the transforma-tion to capitalist society just becouse tion to capitalist society just become they were caught in a set of contradictions; contradictions; contradictions; contradictions; contradictions; contradictions; contradictions; contradictions asceticism and pietkam, and anneliest in the idea of "calling" or "vocetion", four forma of which Weber carefully analysed. (It is easy to equate Weber's Protestantism with later Catviniste, but that is only one of its strauda—likeugh the main one—and he is above all concerned with how, in the fullness of time, thut straud became a socular asceticism strand became e socular ascelicism of time, enxiety and cash.)

"The spirit of capitalism" in this

Moreove the "caibing" and the Weberlan. It is the answer by yay trainmality are not merely the of secularization. British society has become one of the least observant in the worker caimor toll in the work where long rhought in the work where long rhought tripical, virtuous and desirable, there forms of pietism other than Calvinism are particularly important, but these top see Protestant the stern unbending secularization. As Weber put it, "rationalitorms. As Weber put it, rationalization of conduct while this world, but for the sake of the world beyond, was the consequence of the calling of ascetic Protestantiam.

Here lies the heart of one of Weber's basic insights. His studies of the eastern merches of the Hobenzollern empire had driven home to him the different attitudes to work. Work could be something done, as traditionally, to studin a given standard of subsistence, then abandoned for leisure. (In such fircumstances the old loke about the English miner, asked why he worked only four shifts a week is relevant. He replied that he worked four, not five, because he could not live on the earnings for three.)

consuming duty: the least guilty of activities, pursued therefore to the limits of told and body. Hence the limits of toind and ledy. Hence rune these strange phenomena: the runscientions factory hand a define recetic ofillinaire. (If a Professor Elton wishes to understand the orbits of this, then he should reflect also on the addity of the ascetic scholar, of Browning's grammarian.) The problems of "development" or "modernization" are largely the problems of these two artifieds to behouring.

Professor Drocks is much to be thanked for bringing us back to Weber's text, and his meaning for our century, hy stressing these points. Towney, essentially a schoolman, a medieval figure, was concerned with gain itself and alone, this capitalism was wider than Weber's. He did not, like Weber, ask how men were schooled to the discipline of the working dry in the factory, nor, indeed, in his admirable mid-niaeteemth cemury analysis of the content of that day did Merx either ask himself how, "ideologically" it was possible.

To ignore the specificity of Weber is to get him wrong. His final subtlety was to be specifie, illis final weakness was to believe that his specificity could ulso be absolute and in places, but not in this essay, that is what hetrayed him into casuistry.

Again Weber was too little con-cerned with capital as distinct from conitalism. The French historian flenr! See saw this, but made little uf the point. The new forms of capital that energe with the in-genious productive and power-driven machines of the eighteenth century is the side of the story, of the specificity which has been lately too much madested.

There is, indeed, hitle of this in Marx or Engels, who took it for granted; but Weber, at least in some of his other waitings, gives us clues to the understanding of how rationality, pure science, applied science and the technology he plied science and the technology ne neglected all fit long-fier. That, however, is no subject here, save to say that without Weber these matters would remain completely, not just largely, part of the mare Anglo-Saxon chronicles, and not part of the intelligent disgnosis of the muchary world.

with such things Mr Giddens is not concerned. Tawnov wanted to know if Weber was right, we wint the sald true? Mr Giddens wants to know, lentimetely ecough, how Weber fits into the lotellectuel framework of the modero discipline of sociology. It is no good question Weber was a sociologist. But of this essay it is not the central point. That point Tuweey grasped, and for that reeson I regret that this new edition does not contain Tawney's exegesis—wrong though I heve suggested that oxposition by a great historism was in particular addition to what Mr Giddene been noetly given as.

One consequence of the sca-One consequence of the academicism, in the sirici sense; of the new introduction is that there is no consideration of the otost interesting of all questions that this book raises for modern Britain; whatever hocame of the Protestont of the Protest on the latest the protest of the latest of the ethic? The first major capitolist industrial economy appears to be in rapid if incomplete reversion to the pre-capitalist cthic of work as hurden, asceticism in dally life na inderous, and hedouistic leisure es good. I do not object: I should like to understeed.

to understeoil.

One obvious answer at first looks Weberlah. It is the answer by imy of secularization. British society has become one of the least observant in the world and it is precisely the cost Procestant, the con-Conformist churches, which have declined most. With this decline, it could be resided but come the delegation.

dead, replaced by a vasue hisman-lism, just as so much that looks like a revival of religion is certainly not a revival of Protestantism but of syncretism and gnosticisot. Thus, it could be argued, without Protestantism or some substitute for its spirit, is espiralism being undone,
But this is to misunderstand Weber. His idea of secularization

was a new ethic of enxiety, and responsibility la a rationalist, scienti-fic, above all efficiently bureaucratic world. We may have the anxiety and the bureaucracy, but not the rest. It is all very puzzling, but a good reason for reading Weber's own text.

The author is professor of sociology at the London School of Economics.



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Pocket full o'posies

Pingues and Peoples by Williem H. McNeill Basil Hischwell, £4.95

Les hommes et lo peste en France el dans les pays européens et médi-terronéens. Tome 1, La peste dans l'histoire; Tome II, Les hommes fuce à la peste by Jean-Noël Bleaben Monton, 90 and 75 Fl ISBN 2 7193 0930 3 and 0978 8

Plague, Populotion and the English Economy 1348-1530 by John Hatcher Macmillan, £1.75 ISBN 0 333 21293 2

When striking a community for the first time on infectious disesse rages with great virulence and causes many deaths, until the population eventually builds up a resistance and mortality declines. So it is with Professor McNeill's Plagues and Peoples. Its initial appearance in America produced an eruption of superlatives entert requirement. of superlatives opiong reviewers, and the first reviews of the English edition have shown similar symp-toms. But by now these are signs of developing resistance, though not torst intuminty, to McNeill's disease. This is on infection that turns history into a branch of biology. Man becomes a macroparasite preylug on becomes a macroparasite proying on other macroparasites—animals and his fellow men—civilization is transformed into a "fulurinating sort of parasitism", and wars become the "macraparasitism of militury operations". But just as big fleas have little fleas, so macroparasites have microparasites. Their existence was unsuspected before the late nineteenth century, but the diseases they couse have been present since thm began.

from the more probably must asked or single stream of the search and the control of the search and the region to the search and the control of the search and the search an

They settled along the world's greet river systems whose waters gave life, not only to men and their crops, had to tonisands of disease-causing micro-organisms as well. By 500 be four major "disease pools" had developed in Eurasia.—The Middle East, the Yellow River valley, she Gauges valley, and the Mediterranean coastlands—each with its own infections.

Within these pools populations grew as they acquired resistance to disease; but the very growth of numbees ensured that there was always a supply of people vulnerable to infection. Gradually the disease pools converged os men from one civilization traded or fought with men from onother, and by the late Middle Ages there was a single reservoir of infection in the Old World. Finolly, at the end of the fifteenth century, Europeaus took their diseases with them to the New World, with devastating consequences for the Aziecs and the

Incas.
Until tomed by medical science In the nincicenth and inentieth In the nincreenth and twentieth conturies diseases severely limited men's activities. The Yellow River valley, for example, was settled more easily than the Yangtse because the inter possessed more infectious diseases. The Roman Empire cullapsed bermuse of severe losses of population caused by smallpox and mensles intruding from the Middlo East. In northwest Europe population increased steadily between the eighth and fourteenth conturies because the



French outbresks between and 1740. Volume two traditional views of the traditional views of the traditional views of the traditional views of the traditional views are based on mean scholarship and the argumentations of the property of the traditional views of the tradit

For all his stholarship jet because of it—Blraben heaving geand speculation. His more partial transport in the grand speculation. His more partial transport in the geand speculation for the least and lice, though he are the vectors. On the year the vectors. On the year the vectors, On the year from western Europe in meaches importance to mean measures enforced by mean the late seventeam of the house of the non-demography of the properties of plague, it religious beliefs, proving ject foe arrives and page, the first free state needed and stimulated the properties. and stimulated the protect whitewash, tobacco, perfect jewelry as antidotes and of McNeill could not do base Hatcher's book is more than either McNeill's e Kal-in fewer than 90 massly-the author considers where of population in England by centuries following the Ekti-

was so prolonged. The res

plugue, not necessally duational scale, aided by ober tions such as typhus, of:

dysentery, smallpox and the six. That there was such the vest of infection when pri-was declining and red issi-

the survivors were dis

Chambers a few years thiseases have a life cycle

this cases have a life creation and are not an in-Malthusian response to design of the conditions. On the McNeill and Hatcher sets ment, but elsewhere fisch plays a caution that is soft ment in Plagues and People he remarks that plague is tremely complex disease. Since medical and historial ledge of its heiselour erections and from his social ledge of its heiselour erections.

factory. And from his secret conomic consequences of the conomic consequences of the conomic c

The great surcess stury, responsible for the existence of the tradition of teaching applied mathematics in those parts of the world lessentially, those playing test cricket) where it survives, is celestial mechanics, together with the rather artificial non-celestial problems which herive from the later portion of the Principia. Certainly students need to hear Certainly students need to hear something of this triumph; but it is not at all typical of the application of mathematics and probably exercises a haleful influence over the learning of even such closely related fields as electromagnetic theory. For lo celestial mechanics the starting-point is Newton's laws; then all becomes deduction. And, in this imago, the starting point for electromagneter. the starting point for electromagnet-ism is Maxwell's equations—though the ill-effect is mitigated here since few sindents know nothing of the earlier difficulties and partial theories which were metaumrehused into Maxwell's, whereas the early history of mechanics is tornous, little studied, and of less obvious

Modelling chited by J. Andrews and It. McLane

Managing Mathematically by T. Green and J. Webster Macalllan, £4.95 ISBN 0-333-19113-7

Butterworths, £3.95 ISBN 0 408 10601 8

But the essential feature of applied mathematics is the "application", that is, the formulation in fan appropriate mathematical theory which captures some feature of reality. This can be taught only by leading the student through a number of faucessful or otherwise! particulae applications, since there are ber of f successful or otherwise 1 particulae applications, since there are no general rules. But if mechanics were the field, Newton's laws would need to be (almost the ead-point, not the beginning. So it is useful to teach, instead, other applications of orality, or in the modern jargon, examples of mathematical modeling. There is no ulwlone danger here; for if a subject called Mathematical Modelling is cremed, it is all too likely to have as little reference to mathematical modelling as ence to mathematical modelling as Mathematics! Education has to mathematical education. It is not new senses! nationalical education. It is not necessary general principles that are required, but the paiostaking exhibition of parificular applications.

Andrews and McLane have chosen a file which is truthful but does them less than justice, for modelling per se is referred to only briefly ond the rest of the hook is e collection of 16 chepters on particular applications by 17 authora,

giving a useful perspective in one hool, of work for which the harassed lecturer would otherwise have to hum near and far, and in a form (with exercises for each chapter) highly satinable as a class text. Craggs on steering problems is

Applying maths

near genmetrical introduction to optimal control (though it is say optimal control (though it is said to find a writer on geometry and the colonlas of variations stading that Euclid defines a straight line as a shortest distance) and Noblo on "Why huild three-stage ruckets" deals with problems on artificial satellites which are used now to enliven conventional mechanics courses.

There will be general agreement about the existence of a deep and serious malaise in the teaching of applied anthemotics. Students come to higher education inniving a fair amount of mathematics and eager to learn much more; they must also know something of reality. But it is rare for them in show any wish to describe reality by menus of mathematics, still rarer to show much appliede for it. The more characteristic features of the book came up with Corle's "Liquid flowing from a comainer" a tremment of efflux under gravity and the vena contracta beur integrated with a discussion of the time for gending milk out of a card-board container. Hall's "Molecular undels" uses matrix algebra and a little graph rheory to calculate quantitative properties of complex

Equally satisfying is Andrews and Atthey's "Drilling holes with a laser" but Zienkiewicz's piece on finite elements suffers from sunttempt praiseworthy in itself) to give the reader n feeling for the technique in general when it would have been more in keeping with this hook to emphasize one example in detail, in the same way Murdie on population readely tends to give a survey, with useful references, but the modelling feel is missing.

The spirit of the book returns much more with Davies on a model for diabetes mellitus and with o stagistical block of chapters—Ashton on roud traffic flow, Louns on husinest planning in the post office, Buttholomew on the control of grade structure tof employment) in a firm (occually, in this cese, a steady-state university) and Bentyl on motor insurance, fill makes a on motor insurance. Hill makes guod case for a particular tailiney application of game theory, but Carre's piece on network flow models is very little more than a brief text on network theory.

Atkin's chapter on urbon struc-ture is stimulating, but it is likely to be not condensed for the student to feel that he has got under the skin of this rather austere combin-nto oil theory. On the other hund Chillingworth, in a final chapter, gives a unisterly introduction to the catastrophe method which is readily accessible in any first-year under-gredunce in physics, chemistry or mathematics, and is well balanced and modest.

Green and Webster have written a elementory mathematics and statis tics for munugement students.

Most functions are linear, except
for a few quadratle most sud the emphasis throughout is on why you are doing things not on mrid techniques. The audience is limited but
the book is a good read and one
finishes with o real affection for the

C. W. Kilmister

Medieval history in large and small compass

The Medieval European Community by D. J. A. Mutthew Batsford, £12.50 ISBN 0-7134-3254-3

The Medieval Muchine: The Indus-triel Revolution of the Middle Ages by Jean Gimpel Golfarcz, £7.50

Here are two books which have been written to the convicting that our own age was much to learn from

nology; and when technology stegnated (after 1277, he libits), medicus? Civilization began to decline. This, of course, is to essume that the Middle Ages did "decline". Matthew, and most other historians, would not agree, but twould view the Remaissance as the culmination of the Middle Ages. Jeen Glmpel doos not like the Renaissance; at any rate not when their monasterics, townsmen their towns, and peasants their page. But thinking of the Middle Ages.

Matthew has not much time for technology. His approach is refreshingly idealist. He does not believe the limit they have book is probably not that no civilization had proviously

re. Art prove being width live convicting that we will an another many the convicting the convicting that we will are a convicted by the convicting that the only reality is economic and Middle's Ages. The convicting that the only reality is economic account of St. Louis, and the provisional listerian, but the operation of significant to the convicting of the convicting

reforence to Villatd do cours), the daily diet and cours tion of industrial refers to scientific discoveries of Grossetesto and Regar hand interesting but hardy machine cription of machine to the course of the co Nevertheless, Jest Cape of the Nevertheless, Jest Cape of the succession of the succ

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From start to finish

Functions of a Cumplex Variable by D. O. Tall Routledge & Kegun Paul, £1.75

This work deserves its popularity if without abundaning concepts of signar (though often brushing uside many details) it take the render unary details it take the theory of functions of a complex variable All marks such as Cauchy's Theorem under the research as the beak of the points of inverset are visited marks such as Cauchy's Theorem under the research as the beak is defined in an analytic continuation and Riemann Surfaces, the book is demand on the featilist building and Riemann Surfaces, the book is demand on the featilist building and Riemann Surfaces, the book is demand on the featilist building and Riemann Surfaces, the book is demand of the condoint integral tion and its definite integrals, summing sentes and so on. Many except of the method are worked out in the text which is heldly written and well pictical.

This book is very well suited to a short method are worked out in the text which is heldly written and well pictical.

There are seven chapters and two appendices, as well as humerous exercises scattered throughout the book, with nonsers at the beck. Apart from brief chapters on conformal mapping and analytic continuation and Riemann Surfaces, the book is demand of the series scattered throughout the book, with nonsers as the beck. Apart from brief chapters on conformal mapping and analytic continuation and Riemann Surfaces, the book is demand of the series scattered throughout the book, with nonsers as the beck. Apart from brief chapters on conformal mapping and analytic continuation of Riemann Surfaces, the book is demand of the series scattered throughout the book, with nonsers as the beck. Apart from brief chapters on conformal mapping and analytic continuation of the series scattered throughout the book is demanded in Conformal mapping and analytic continuation of the series scattered throughout the book is demanded in Conformal mapping and analytic continuatio for without abundaning concepts of

ral formula and the residue theorem are very becausiful parts of the sub-ject, as well as being very useful and it is natural that they should be used in stimulate the interest of ondergraduates. This the author does This volume is a reprinting of the two volumes of identical title, which appeared earlier in the same series. This work deserves its monthality.

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lines some developments of the period, is his only introduction. I

it was not the neatness of the

querier-century, it was perhaps the wish to sample the years of, say, The Dark is Light Enough and Salad Days, as well as those of Look Back in Auger and its successors.



Dalsy Miller, the rich girl from Schenectady, an "inscrutable combination of audacity and innocence", from the stocy by Henry Jemes. A picture taken front Our Literary Heritage, A Pictorial History of the Writer in America by Vun Wark Brooks and Otto Bethandn,

A language of place

The history of science is not often considered by literary critics. This book, though, begins with the impact made by Darwin's evolutionary theories. After Darwin, blological necessity challenged religious cevelation; primitive and instinctive wisdont was opposed to conventional moralities. Leter Nietzsche emphasized man's Dionystan aspect, Havelock Ellis preached soxual tolerance, Freud investigated the unconscious. Propresched come tolerance, kreud investigated the unconscious, Professor Aicorn gives the name "naturated" to a group of novelists who, he claims, were suracted by such post-Darwhilan concepts, and who searched in perticulor for a language of place to express man's suddenly unimate relationship to the natural world.

a language of place to express man's suddenly intimate relationship to the natural world.

He writes about Herdy, and his characters who "move ocross the landscape: like flies across ancient rooks", who doggedly aspire to extricate themselves from the natural world that defines them. He writes about Erewhon, set in an empty, stark londscape, and about Hutlet's attack on repressive society. He writes about the open speces beloved by Edwardian trovel writers, and about the exotic, unconventional worlds of novelists such as W. H. Hudson and Cunsinghame Graham, relating them so the allen places of Kipling and Forstee. He writes about the influence of Herdy and the travel writers on Lewrence, and about Lawrence's charecters searching through symbolic Isadscopes for their spicitual home, only to find it



From College to University
1909-1956
This book by Professor Leonard Canior end Dr Gaolfrey Matthews deale with the colouriul Dr Harbert Schoffeld and the electric by the colourium of the bloom of the colourium of the bloom of the colourium of t Or Herbert Schoffeld and the elfocts by him and his successors
which produced today's University. While not exactly "Log
Cabin to While House", it telle
line tele of the inelliction's evolution from a small technical institute to loday's modern developments.

the to loday's modern developments.
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The Nature Novel from Ifacdy to
Lowrence
by John Afcorn
Macuillan, 57.95

within themselves: "There's somewhere we can be free...!t
lsu't really locality, though, It's o
perfected relation between you und

, says Birkin. Hardy and Lawrence are considered at length. The other writers appear more briefly to Illustrate points, to make onalogies, and to fill out the eleborate turns of the argument. Constantly Alcora modulating the eagerness with which his chosen novelists entered into the intellectual excitement of the period. This book bristlas with voking comparisons.

However, Alcora seems to shars appear more prierly to illustrate points, to make onalogles, and to fill out the eleborato turns of the argument. Constantly Alcora modulotes between fletlou end ideas, initating the eagerness with which his chosen novelists entered into

me intellectual excitement of the period. This book obsisties with the period. This book obsisties with the period configuration. The control of the period consistence of the

Christopher Worth Geoffrey Soar

Felt intensity

The Advantage of Lyrk: Essays an Feeling In Poetry by Borugea Hardy ISRN 0 485 11162 4

Professor Hardy, in a look of essays that mayes from John Donne at me end to Sylvia Plath at the other me end to Sylvia Plath at the other with capital confidence, is most nemarable in her introductory essay, a definition of lyric as the verbal arr in which feeling, not theme, plot, character, thought or atoral intulication, is the dominant element: "Lyric pactry isolates feeling in small trampase and sucher elements mentioned, "ideas, objects or themes", are not eschuded but are above at the service. ded but are always at the service

If the introductory essay displays tralessor Hardy's gift for fruithit generalization, the essays on individual poets display a different trient for putting analytical power at the service of taste. It is difficult to say anything poet about the cult to say anything new about the personality of John Donne but Pralessor Hardy notes that the unity and strength of Doune's lave metry springs largely from his ability to express in the same poem the freshmess of delight and the "hateful ness of delight and the "hateful detail" of frastration or distrist.

Arthur High Clough, though lacile critics have seen him is a precursor of the moderation of T. S. Elint, was, Professor Hardy nutes, mare lightly huprisoned than any other Victorian by the problems of his age; he walks a alghtrope hetwoen religion and hypocrisy, the honesty of sexual passion and the durror of licenticosness, the duliness of respectability and the necessary virtue of earning an Yet historical aworeness is not especially encouraged by Mikhail's otherwise sensible arrangement. The useful soctions on bibliographies and reference works are followed by others subdivided, like them, alphabetically by the authors of books and periodical articles. Most entries oro briefly annotated, but any time-sequence must be constructhe necessary virtue of earning and the necessary virtue of earning an houses living. The ordinary reader, who is not a Victorian expert, will admire the explaining sympathy in this essay hat perious not feel sa eager as Professor Hardy to read Claugh.

Two essays, on the other hand,

which cun be soluted only 1delight ure on Gerard Monley E.
kins's sunnets, and the progress
Years from the 1890s to himms
and last work. Taking "Gloss
to Golf for duppled things" alstarting point, Professor Hardy E.
in Hopkins o "process of sesince in which we may from
stage of feeling to another, was
from the sensuous and phenome
in the spiritual edvenure g
chose examination of sessol close examination of sessal incis shares, however, that was formula is no substitute for deal analysis. She takes hopies is thanke, as fundamentally et putet (the passing it the sewhether its object is an failing woman or a Christ tho dos to leave the devout soul in declining and combastice is not contained. tion) and emphasizes in his the theme of deprivation

The brilliant self-identifine

know how many years his I have read such on exign

G. S.I

of new essays on poetry,

the Years essay makes the the prize piece in the be-incapable of brief analysis Auden has uften been read n brilliantly intellectual as cannot express aither perma or religious devotion that can write intelligently share tive very closely argued esset fessor. Hurdy makes a control case for Auden at his bet a muct al direct, spontaneous ettou. Ity way at contrast to phasizes the "severe" ad "suract" quality of Dylas bat She is heautifully balance by Sylvia Plath, who unanger using a contrast of the land in such a poem as "Lady Lin great art out of raw maintailed is in itself repulsive: "It is the it is a show, something to be it is a show, something to be is stinking at death." But Ilardy's balance, in this but an Sylvin Plath, marks so it samething near genlus, 155

The resulting study represents not only a mujor contribution to the literature on higher education in the Third World, but also pradical departure fram customary practice, in that lucol educational experts in the countries concerned were esked to undertake the study tather than expertise personnel. The publication is in two valuances:

baru R, Fogel

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This important book is the result of a study conducted in 1974-75 by

practice, in that lucol educational experts in the countries concerned were esked to undertake the study tather than experience personnel. The publication is in two valumes: the first comprises on overall teport on the praject together with three regional reports from Asia, Africa and Letin America and sum:

The profiled of trying to inalyse precisely what the rule of the university should be in relation to national development is national development is cancerned itself. During the 1950s this was regarded as being cancerned exclusively with economic development, in such a tase, the role of the

Itigher Education and Social Change—Promising Experiments in Developing Countries Volume 1, Iteparts by Kenneth W. Thompson and that bear B. Foyel

Third World universities

The problem of trying to unalyse

maries of 25 case-andies of higher education in those areas; the second consists of the cose-andies themselves, supplemented by seven special studies contributed by distinguished international experts. Throughout the study the project is referred to as "Higher Education for Development" (HED) and there is little durby that this would have been a mare appropriate tile for the book, cather than the more limiting. Higher Education and Social Change.

Inevitably, in a work of this nature, amony highly empropersion with the more instituted in the particular role which the concept of development in the quality of living in Third World connectes. Such a troadening of the concept of development in the quality of living in Third world connectes, Such a troadening of the concept of development in the quality of living in Third world connectes, Such a troadening of the concept of development in the quality of living in Third world connectes, Such a troadening of the concept of development in the particular role which the concept of development cannot be promoted successfully without a much deeper knowledge then we currently have eitself play in relationship to the develop-

This important book is the result of a study conducted in 1974-75 by educationates In developing conntries for 12 national and international donor aid agencies, directed and coordinated by the International Development of Council for Educational Development of Council for Educational Development of Council for Educational Development in Council for Education in Council for Educational Development in Council for Educational Development in Council for Education in the Council for Education in the Council for Education in the Third World, but has been considered in the Council for Education in the Third World and point and been council for Education in the Third World in Council for Education in the Council for experiments are often worked out against differing backgrounds of national pollucal ideology—from the market economy of many Asion countries to the enthusiastic socialism of many Airican ones and the their transfer and the countries to the countries of the countries are their countries. hesitone traditionalism of those i Latin America. This is certainly most rainable publication which a must for all those interested i Third World development.

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GENERAL EDITOR: JOHN EGGLESTON

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Titlae published lest yeer were: SOCIAL CONTROL AND EDUCATION by Brian Cavies; INTERACTION IN THE CLASSROOM by AN CAIAMONT; EDUCATION AND POVERTY by Philip Robinson; and LANGUAGE, SCHOOLS AND CLASSROOMS by Michael Slubbs.

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Scholars in the Making: The Developuum of Gendanie and Professional Studies called by Joseph Katz and Rodney T. Hartnett

Wiley 10 55

There are lew books un the education of postgraduate students. Fewer still cuncentrate on the experiences of the postgraduates themselves. Scholars in the American steme and its conclusions are widely applicable elsewhere. It marks the centenery (1976) of the first purely graduate school, Julms ilopkins, and a number of researchers associated with the willent James Centre of Berkeisy's and methods of inquiry. Baird used duestionnalre methods to study cthair, celigious, financial and family influences upon the docision to ply for graduate schools. Interest a the subject of study (82 per text) wore tho factors most frequently mentioned by the stus. Hartnett quickly reviews approaches to the study of college their comments and concludes that a graduato student's departmental climat is the most impuriant influence upon his satisfectiun and mental health. In particular five that is the most impuriant influence upon his satisfectiun and mental health. In particular five that is the most impuriant influence upon his satisfectiun and mental health. In particular five that conditions conscious discrimination against the content of community; concern for textiling the philosophy and the rigidity/flexibility of the received of community; concern for textiling; the philosophy and the rigidity/flexibility of the sections on student davelopment and the meaning of quality in graduata and professional educoids and the received and the meaning of quality in graduata and professional educoids. In a fely on interviow dates. Nevitt is sanotal uses personal recollections. unte student. Prum all these approaches simi

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and the researched. Maurice Punch could not have written about a mixed, independent, progressive hoarding school. Affluence Court, set up in the rural south-west by a millionaire as part of a project in community living, and run for many years by a charismatic head teacher. Fred Hash. Darrington Hall is too well-known for this, and W. B. Curry is already in the ante-chumber of the great educators, Maurice Punch's research and its account the educated man'. Here-Princh's research and its account have suffered without the protection of pseudonyntity, because the trustees of Dartington, who sponsored and financed the project, have felt the school to be valuerable. Two of them, Maurice Ash and Michael Volume, Maurice Ash and Michael Young, contribute an Introduction to the book, disagree-ing with its general conclusions. In his acknowledgments the nuther explains how the trustees chemi-scribed his writing by illustrowing quintations from the school files and by limiting the report of his research to the period of Curry's headship. In The Sunday Times of April 24, Dr Punch described his firther, problems of the state of further problems, including the rusices' attenunt to restrict occess to his thesis which forms the busis of the hook.

Interviews with Just 60 former Interviews with just 60 former pupils from the pre and nootwar pariods form the bulk of tho original moterial. In rocollection their school plays were generally happy ones, with few of the constroints of troditional independent chertical tion; they were habitually four mouthed. Their extensive social life was characterized by long periods of characterized by long periods of characterized by long periods of characterized, with "emptions of galvanic energy", in juzz bands, ing highly urized, with "emptions galvanic energy", in juzz bands, roller skuting, or whatever was fash-lonable at the time. They were not worked hard, a matter of regret some inter when they found that

for some injer when they fund that their ambitions were frustrated by lack af qualifications. Some faund the treasition to the outsile world difficult, and it was Punch's emelusion that: "Moles in particular were hundicapped for filling conventional occupational roles", which the trusteee particularly objected to.

Much of the book centres on Curry and his educational ideology, his problems with porents and the reletion between the school and tho rest of Dartington estale, his ilisoppolitments at the lack of high ocodemic success (although he was not perfectly and the problem and not a good tencher and was not interested in the curriculum), and at attracting so many "meladjusted" children. His prido in never using the veto at the School's County of the second o cll as celebroting the enneept of self-government is set against the occuunts of his lalking a meeting tound to his point of view by the exercise of bis imputed charlsma.

Ronald King

Peters' principles

Education and the Education of Teachers by R. S. Peters

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Cherry Dale comprehensive, Clint ond his friends at Lamley Modern or examples of pseudonyms in the literature of the socialagy of educations, this most parent collection of his articles falls into two parts and the researcher and the researched. Magnice Punch and have written about a first consists mainly of reprints of first consists mainly credic for creating the new philoso-phy of education, it is Professor Richard Peters. He has been

practices concerned with the up-bringing of children and a more specific concept, derlying from a particular ideal of what an edu-cated person is. This concept picks out consistes doublement out cognitive development as a principal aim of education, in the principal aim of education. In the second paper, he suggests a number of categories in terms of which the quality of education can be assessed. This is fullowed by two less well-known papers on liberal education which expand on the observable of the subject in Ethics and Education. The other outstantial paper is "The justifier outstantial paper is "The justifier of the authority of she authorit

In the following urricles, leters expresses dissatisfaction with some of the consequences of the instinction of educational differentiation of educational theory into branches of philosophers of integrate educational theory into branches of philosophers of educational theory into integrate education in merely at the pragmatic integrate of the converge concerning the continuous control of the converge concerning the control of the converge control of the converge concerning the control of the converge control of

they were supposed to making As an antidute, he advocates make the production of the control of the production of the control of the control

The ideas and the philosophers of the book will be to circuity familiar to those who a drived with Petal work to make detailed communicates any. But it has to be a moveledged that the philosopher manner in which he treat his reject aften elicits considerable he, lite, especially from the education of the fit. However, my own his that little purpose is sensed;

papers that revise, refine and elahornte the accumit of the concept of education given in Ethics and Education. The secund contains articles and indresses on the nature of educational studies and their proper function in relation to the ethication of teachers.

Part one opens with "Education and the educated man". Here, Peters distinguishes between a general concept of education that caronpasses a wide variety of passes for common sense.

passes for common sense. As the "great debug" E's reminded us, effication cases, kept con of pulities. The coops education to which we descine

do well to consider the per of much sing "education" related concepts along the litopk of justice in his end book Social Justice. As E pullets out, it is not possible evaluate riral rersions of impair political convepts except by unding the larger social and placed rietypoints which gire to

The Idea of the University of Chicago

Selections from the Pepers of the First Eight Chici Execution of the University of Chicego from 1991-1975

Williem Michael Murphy and D J R Bruckner, edilors

The editors of this volume have selected excarpts in the papere, speeches and other writings, that best reflect as the dent's interpratation of the idea of the University of Chicago.

The topical arrengement gives the impression of a discussion but it is also in the condition. cound to his point of view by the exercise of bis imputed charisma.

The soloblery is lightly counsed the control in evowodly anti-institutions. The trustees conditions prevent Punch describing the problems of the transition of suthority experienced by Curry's successors the end Lois Child, although this is in his erticle in the British Journal of Sociology (Volume 25, No 3, 1974). The circumotrances of its production are as interesting as the book itself, and both reveal much about the nature of Dertaington. In 1937 Leonard Elmiburst, its co-founder, whole "should we become a little insuleted isolated bunch of fink using our mesos so on artificial berrier ogainst the buffers of a highly critical, realistic and competitive outside world?" His guestion is very close to an acceptable description.

The soloblery it is lightly touched the topical arrengement gives the impression of a discussion in the lidea of the University of Chicago. The topical arrengement gives the impression of a discussion in the opical arrengement gives the impression of a discussion in the opical arrengement gives the impression of a discussion in the opical arrengement gives the impression of a discussion in the opical arrengement gives the impression of a discussion in the opical arrengement gives the impression of a discussion in the opical arrengement gives the impression of a discussion in the opical arrengement gives the impression of a discussion in the opical arrengement gives the impression of a discussion in the opical arrengement gives the impression of a discussion in the opical arrengement gives the impression of a discussion in the opical arrengement gives the impression of a discussion in the opical arrengement gives the impression of a discussion in the opical arrengement gives the impression of a discussion in the opical arrengement gives the impression of a discussion in the opical arrengement gives the impression of a discussion in the opical arrengement gives the impression of a discussion in the opical arrengement give

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BOOKS

School scrutiny

The IEA Six Subject Survey: An Empirical Study of Education in Twenty-one Countries—International Studies in Evaluation, IX by David A. Walker Wiley, £16,00 ISBN 0-470-15009-2

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countries.

The method was to identify a lost of input voriables and, by calculating multiple correlations, establish connexions with the output as measured by tests of attainment. Explaining the procedure in non-technical language, this volume offers a gentle introduction to regression analysis.

A procession analysis.

A more general interest attaches to the choice and nature of tha variables because their comparability from one country to another to central to the validity of the exercise. Thus, while there cannot be much argument about those which deal with personal data—se boy is a boy, an only child an only child, whether in Poland or Peruchlers are not so straightforward. To define social status various "surrogates" sire suggested and though some of those can on occasion be contradictory—"father's occupation" and "cultural level" for instance—the composites in which they are grouped, such as those concerned with parental embition, probably do get very near to identifying the sociol conditions that determine success at school. A more general interest attaches that determine success at school. So the tank orders that emerge from the measurement scenn reasonably comparable from our country to such pressure.

to another.

What are termed school variables are more problematic. An influsive knowledge of any untional education system reveals a multiplicity of coveats about distinctions between selective mul comprehensive schools, large and annul schools, proportions of male and founde teachers, to queto lust a few Hiuvantions. Most important af all the raw material arc the syllabases, for one can hardly investigate attainment without paying very close attainment without paying very close attainment of what the examinees are suppassed to have learnt. The curriculum grils that were used for this revealed, in the case of science for example, only slight differences in emphosis from one country in the next.

Hence the justification for regarding the tests as universally applicable, at least among the developed.

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of the content of these tests are not particularly reasoning on the question of whether they were searching enough to bear compar-isum with the existing national examinations, especially at the pre-

interminations, especially at the presame with the existing mining and the saminations, especially at the presize with the existing mining and the presize with the existing mining and the presize with the existing mining and the presize with the contribution of the presize with the contribution of the pregrounds that the tests did not exist and the pre-sent volume is too vuget a populity that los been paken in the matter study who critice.

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incidents and disputes in American universities and colleges which have

monts. This is a well argued and succinct contribution.

The book concludes with a compelsor attempt by the aditor to bring together the lessons to be learnt from its 20 contributors. The first, to which the British reader can readily assont, to that "little is done to onalyso in any depth the predicemento in which administrators of higher advacation find themselves involved." As a result, among other unfortunate consequences, "politico tekes precodence over principle," and "purpose and process take at back seat to fiscal requirements." The remedy, of course, is claimed to lie in the provision of courses of study and treining, preferably in some form of staff college, to be entitled an "Accedemy of Higher Education Administrators." "Acedemy of Higher Education Administratora" Unfortunately however, there is little indication of whet would be the substance of the studies to be carried out in such an inotitution.

George Baron

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lations and factor loadings. Others describe established or experimental procedures for teaching talented children at home or in school. A further small group, often his graphical or autoblographical in naturo, contains emotional pleading for better provision for the gifted from on aggrieved peront or eoclety for vory able children.

The outhors of The Psychology and Educotion of Gifted Children have concentrated on research findings and emissions of gifted Children.

The optic is not an easy ona to write about for eaveral reasons. The one many books in the fiold and few ere in any way distinctive. Anyone displeying what looks like an unbealthy interest io giftedness runs the risk of being lebelled an elitist. In research terms the area is a anaesy ono. Traditional investigations using correlational, feet or homogenelty of variance. Others founder becomes buman talent is multi-dimensional and no agreement can be reached about whate begins.

The book is lergely what one with the provision series described with greater confidence and conviction. The achers on school provision sere described with greater confidence and conviction. The achers on school provision sere most likely to be read with Interest by teachers, and since nearly 60 per cent of principals one and single gifted pupil in their school and investigation of gifted Children and their exceptional ability so as not to lose that friendship of their teacher. Classroom observation findings are defined with lighters on school principals are most likely to be read with Interest by teachers, and since nearly 60 per cent of principals one and since presents by teachers, and since nearly 60 per cent of principals in subject for very able that they had not a single gifted pupil in their schools or receive talent is of vitel importance, especially as glited pupil in their schools or receiver. Classroom observation findings and the fold and few ero in any way distinctive. Anyone displement to a conceive the principal in their schools are frequently os glited pupil begins.

The book is largely what one would expect from Phillip Vernon, nemely a lucid, authoritative, thoroughly readable and comprelicative, account. There are some ATOL 152BC

sity", Seymour Martin Lipset in his introduction rightly points out that "the participouts in this symposium dn not ngree as to what the crisis is ubunt". One comes uway, indeed, with the impression that there is no single crisis—there is either an aggregation of crises or, more likely, none. There clearly is, however, echronic cundition of stress os universities have strived to address to versities have strived to odapt to changing circumstonees of expansion, contraction, relative deprivation, student unrest and excessive publicity.

The Psychology and Education of Glfiel Childeen

by P. E. Vernon, G. Ailenson and D. F. Vernon

Bnoks on gifted children are of

several kinds. Many relate anoc-

dutes, sometimes of dublous authen-

ticity, about child genluses such as

Mill and Mozart, or tell of the unexceptionel childhood of outstand-

ing adults like Einetein and Darwin.

Some plod remoreelessly through

the psychometric literature detall-

ing head-spinning torrents of corre-

lations and fector loadings. Others

describa established or experimen-

The outhors of The Psychology ond Educotlon of Gifted Children have concentrated on research findings and enalysis, the definition and

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International Symposium on the Critical of the Control of the Cont

discussion of communicating and connecting that somehow devotes only one page to universities. But ir is not only from Haggarr that Urban Invites summaries of already felligence about diffants and experiences. Some street the lack of any seasons, Albin Tournaine and Mick an admirable point of the lack of any seasons.

There is also much pleasure and ethnulus in he found here, not least from juxtaposing the riews of dif-ferent contributors on a particular topic for example: for Tourraine

disappointments hawever. Much of what is described is routine and to be found in most standard backs, (though Vermun's account is better than many); Termun's mourmoutal languadinal study of several handred gifted children, liebb's intolligence A and intelligence B, the Socarman and Thurs

gence B, the Spearman and Thur-stano factor unnlytic studies of human abilities, Guilford and For-

human abilities, Guilford and Forranco on erentivity. Furthermore
the British reforences have a dated
early 1960s feel about them,
although two of the outhers are of
British origin, with their tolk of
troining colleges and apparent
unawareness of the very widespread
use of mixed ability classes in comprehensive schools. American and
Conadian schools are described with
greater confidence and conviction.
The chapters on school provides

sphere in selective schools on the grounds that this has been discredited. The "Piccadilly Circus" vlew of educational development, however, has it that if you only wait loog enough it sil comes round again to be rediscovered acultantly by a future generation. This useful book, short though it may be on original material, provides a valuable introductory survey of a pro-

able inmoductory survey of a pro-blem which refuses to go away, however long wa close our eyes.

E. C. Wragg

Exceptions to the rule

nlity—on all these administration of the land contains confiding a ing, or merely irriting at that provoke though his tains a great deal of additional contains and a great deal of additional contains and a great deal of additional contains a grea voice, but the book are and concern in and the

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Teaching teachers to teach

There are 16 contributions, many by internationally distinguished scholars and practitioners in the ileid, all of whom have spent their formative years working in European settings. The collection has three major foel. Heginning with a general introduction and proceeding the wither wave detailed treatment. via e rather more detoiled treatment of the professionalization of ten-thers, the book turns to wider

hibliography nor in the index. This seems to me to be potentially one of the most powerful contributions, espocially as Habormas is so little

devolopments in England written by Turner. Though cesual in its treotoment of the Council for National Academic Award's crucial and unique role in the field, the essay reviews the contemporary, if less inudable, scene.

These ore then followed by contributions from The Netherlands, Norway, Bolgium, France and an intriguing piece on Brennen in the findividual taste and judgment. For mekey concepts, although I can find no reference to Habermas's key concepts, although I can find no reference to Habermas's in the hidlography nor in the index. This good as Lomax's excellent volume on the education of teachers in Britain.

James Lynch

Towards egalitarian education

Patterns of Inequality: The Influence of New Structures in European Higher Education upon the Equality cational Opportunity

by Guy Neave
National Foundation for Ethneutional
Research, £4.60
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that will be of interest to both stud-sats and roseerch workors with a specialized interest in educational policy ood planning.

The book is divided lote three parts, "Growth from 1945 to 1975", "New Structures" and "Conclu-sios". The first is the oft-told tale of rapid expansion followed by slower growth. There is much detail of higher oducation enrolment rates to European countries that will be sew to readors not familiar with the work of ogencies such as OECD, but this book is likely to be the last accessible source of informa-la lar some years to come. Neave te lor some years to come. Neave brides various possible oxplanation of the dramatic changes that around 1970 end concludes to single pettern fits all there was the single pettern fits all the singl

er, the underlying theme tunity for bright people) to

Part two contains o useful summary of half-a-dozen major structural immrations in European higher education—all flow favourites with international organizations: French Institutes Universitations de Technologie, German Gasonthochscucen, Nurwegian District Colleges, the Open University (of course), the pulytechnics (of course) and ornther rarer bird, the Yugoslavian visc skole.
This section olso contains the

This section olso contains the most controversial part of the book, an attempt in define three different concepts of equality in higher education, what Neevo calls the "elitist", the "socially oriented" and the "individually centred". The elitist is, according to Neeve, based on the belief that intelligence is measureble and innote; whereas the socially oriented view is that intelligence is measurable but subject concepts or equality in nigher equivers of eation, what Neevo calls the "elit." It', tho "socially oriented" and the "individually centred". The elitist is, according to Neeve, based on the belief that intelligence is incessureble and innoto; whereas that socially oriented view is that intelligence is according to Neeve, based on cultural relative ignore is measurable but subject to environmental change. Pinally, the individually controd approach is assentially based on cultural relative is measured in ony way that is meaningful".

Since Neave evidently considers, that there is, or ought to be; some sort in progression from "elitist" ogalitarienism (or equality of opportunity for bright people) to treating Gareth Williams

want idoas saat need turthor devolopment. One important example is his tantalizing suggestion that the slower growth of the next decedo can result in o more favourable climate for innovation as institutions compete for e smaller numbar of students. But he does not develop that theme, nor consider the opposito argument the reduced staff for this theme, nor consider the opposito argument the reduced staff for this theme, nor consider the opposito argument the reduced staff for this theme, nor consider the opposito argument the reduced staff for this theme, nor consider the opposito argument the reduced staff for this theme, nor consider the opposito argument the reduced staff for this theme, nor consider the opposito argument the reduced staff for this theme, nor consider the opposito argument the reduced staff for this theme, nor consider the opposito argument the reduced staff for this theme, nor consider the opposito argument the reduced staff for this theme, nor consider the opposito argument the reduced staff for the intelligence is dimote for innovation as institutions competed for esmaller numbar of students. But he does not develop that theme, nor consider the opposito argument the reduced staff for the intelligence is dimote for innovation as institutions competed for esmaller numbar o

is that slople quantitative expension of existing institutions, more of the same os enumerated, for example, by the Rubbins Crammittee and by 1970 legan to unigrow itself and was being forced to give way to a more varied pattern of expansion in whilch paratime study, new corriculor patterns and a new kind of clientelo would play a much larger role.

That two contains a metal sum the denomination of the pictures in Playboy or Penthouse rather than the denomination of the capacity awaits the solution to the old problem of whose intellectually equal and since he obviously considers some form of post school education a good thing, one capacity awaits the solution to the old problem of whose intellectually equal and since he obviously considers some form of post school education a good thing, one capacity awaits the solution to the old problem of whose intellectually equal and since he obviously considers some form of the capacity awaits the solution to the old problem of whose intellectually equal and since he obviously considers some form of the capacity awaits the solution to the old problem of whose intellectually equal and since he obviously considers some form of the post of the capacity awaits the solution to the old problem of whose intellectually equal and since he obviously considers some form of the capacity awaits the solution to the old problem of whose intellectually equal and since he obviously considers some form of the capacity awaits the solution to the old problem of whose intellectually equal and since he obviously considers some form of the post of the capacity awaits the solution to the old problem of the capacity awaits the solution to the the denouement nover comes. Instand we are treated to a rather arbitrar-ily contrived index which nurports to show that the Open University is to show that the Open University is the most eguliarian higher education institution in Europe (I suspect further education colleges might score higher) and some by now conventional remarks to the effect that recurrent education of adults is, while not a panaces, the best tonic thera is for jaded higher education systems.

Neavo has material here for a really valuable book. It bristles with Idoas that need further devo-lopment. One important example is

Among this week's reviewers

toge Boron, head of the depart-tot of Educational administration the University of London Insti-te of Education, is co-author of Covernment and Management P. C. C. Evans has held the post of education officer in Kenya, chief education advisee to the government of Jameica and was a research fellow in the University of the West Indies;

thing services centre at the United in Strategy of Exercise and the author of Students; Artbur lfearndon is secretary to the slending conference on univer-sity entrance and author of Educe-tion in the Two Germanics; A Clarkson, ceader in economic at social history at Queen's Uni-lectly Belfasi, has written The Pre-institute Economy in England 1996 and Death, Diserse and 1996 in Pre-Industrial England;

C. W. Kilmister is professor of maths of Kings College Loudon; school of education at the University of Notlingham and outhor of Teoching Teaching and Classroom Interaction.

Anderson is lecturer in meths R. If. C. Davie is professor of his Education, is readed in education in the University of Birming et the University of Exeter; James Lynch is heed of the Margaret McMillen School of Educision and author of Lifelong Education and the Preperstion of Educational

Personnel:

Genome C. Moodle is professor of politics at the University of York and we a co-author of Power and Authority in Bridsh Universities; Grenville Well is senior lecturer In technie :

The Psychology and Education

of Gifted Children PHILIP VERNON, GEORGINA ADAMSON AND

Education locary increasingly focuses on average pupils, and It is becoming all the more important for teachers, parents, and educationists generally to be made aware of the special needs of the bright and talented, and of the socious losses to society when they are ignored or repressed. The authors discuss the present provision of special facilities for the education of these children, with particular reference to the UK and Canada. 25.95 University Paperback 22.95

Europe at School

NORMAN NEWCOMBE

The author has written a lively and aminently readable account The author has written a lively and aminently readable account of the dry-lo-day running of European schools based on his visits to live countries.—France, Weet Gormany, Italy, Spain and Portugal, He outlines the organization of education in those countries, and axamines aspects of eurofeulum, tasching mathods, examinetions, altitudes of teachers and pupile, buildings, equipment, out-of-school activities, pastoral core, discipline and rules—and dopicls what it is like to be a pupil or tencher in a European school.

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HERBERT KOHL

The author's own experience in primery and secondary schools is exciting example to laschars—and parants—on developing new and imaginative ways to teech. Children being a feeling for genes and language with them into the school—Kohl suggests that the craetive teacher will use this feeling so a starting point, beginning where the pupils ere, not where the teachers are, nor whore textbook publishers soy they should be. He shows how creetive wilting and the logical and methematical concepts involved to pleying games then stimulate children's interest in formal learning.

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Réturn tares are paid. Local contracts are guarenteed by the Brillish Council. Pleass write, guaranteed by the British Council, Pleass write, briefly stating queltications and length of appropriate service quoting relevent reference number and stills of poet, for turther information and application form to The British Council (Appointments), 65 Oavies Street, London W1Y 2AA.

Committee and the stage of world between

ABERYSTIVYTH COLEG PRILYSGOL CYMBU THE UNIVEHEITY COLLEGE LECTUREIL IN MICHOBIOLOGY

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Applications are invited for the above post in the Jouer's property of the Jouer's particulars available from the Hegisper.

June 31, 1977.

BIRMINGHAM BIRMINGHAM

INIVERSITY OF ABTUN
DEPARTMENT OF ABTUN
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LECTURER IN ELECTRICAL
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LECTURESHIP IN POLITICS
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and Industry. In addition on
ability to teech Comparation
Politics would be an advantage. Pointes would be an acren-tence of the control of

MANCHESTER THE UNIVERSITY TEMPORARY LECTURER IN NEW

Anplicolions are invited for his post, ionable for one year from October 1, 117 one year potence is Gostol lexts and introduction would be specially 33,333 to 23,570, Superannuation, Further particulate and application forms treturnable by June 2-the from the Registrar, The University, Manchester, M13 UPL. rof: 62/77/THUS.

THE UNIVERSITY OF WESTERN ONTARIO

requests applications and nominations for the post The Ocon le responsible for the edministration of the Feculty,

Appointments normally are lor seven years, renew Academic end administrative experience necessary.

Appointment to begin July 1, 1978.

Selery to be negotiated.

Nominations and applications, including an up-to-date curricultum vitae, should be submitted before July 3t,



Vice President (Academic) and Provosi The University of Western Oniario London, Onlario N6A 5B8

The Institute of Development Studies, University of Guyene invitee applicants for the post of Research Fellow under the Regional Programme of Monetary Studies. This Programme is jointly undertaken with the Institute of Society Individual Control Con

Holidays and Accommodation and Economic Research, University of the West Indies. The resperch project in question relates to a study of Financial Structure end Financial Policy' in the Cerib been. The succeedul applicent chould have a good knowladge of both money and benking and micro-economic theory. Post-greduate training and/or research experience will be an edvantage. The eppointment will be to two THE UNIVERSITY OF MANCHESTER

yeers in the first instance. Satory Scele (Per Annum)

Universities continued

UA3: G\$9,000 × \$480-\$14,760

The point of entry will be determined by qualifications and

The successful candidate will receive a grafulty equivalent to 20% of selery and e housing ellowence of 20% of salary. Anyone recruited from overseas will receive up to four full economy eir laree (for himself, with and uninterried children up to eighteen years of age) from point of recruitment to Guyane, limited removal expenses and a settilippin of the process. penses and a settling in ollowence.

Applications (three copies) slating neme, dele of birth, marital status, qualifications and dates obtained, work experience (with dates), names and addresses of three referees (one of the referees must be your present or last employer, whore appropriete), must reach the Personnel Division, University of Gityana, P.O. Box 641, Georgelown, Guyona, before 21st June, 1977.

UNIVERSITY OF GUYANA

VACANCIES-**FACULTY OF EDUCATION**

Applications are invited for the following positions in the Faculty of Education. (1) DEPARTMENT OF CURRICULUM DEVELOPMENT

PROFESSOR OR SENIOR LECTURER

tionen Developiioni.

(b) conduot end sijiniviso insparcii in his piga ol specialization. Applicants must possosa n doctorata in Psychology with special aniphable in the aroa of Itumen Development; have considerable teaching experiences at University lovel; provide evidence of algorithment research and publications in his irrn, of specialization. Experience in noministration of departmental level would be an edvantage.

(2) DEPARTMENT OF EXTRA-MURAL STUDIES LECTURER OR ASSISTANT LECTURER IN AOULT EDUCATION

The successful applicant will be required to develop inclinations in Adult Education; organise and eacist in loaching couleds in edult aducation programmen; organise and sealet in relevant research projects. education programmes; organise unit events.

Applicants must possess at lonel a tiral degree in Sociology (preference) a final sociology) and a post-graduate qualification in Education; these in live years' locating experience is essential. Praylog experience in the post-graduate experience in the programmes and/or continuing education would be an advantage.

(3) LECTURER IN MATHEMATICS EDUCATION The succoseful applicant will be required to leach and supervise Maihameles students in the Original in Education programmo. Applicants must have at least a good list degree in Methematics and Post-graduals quelifications in Education with three years 'televont teaching expellence.

Batary Scales (per enrum):

PROFESSOR—UA1: 0315,480.00-522,680.00.

BENIOR LECTURER—UA2: G\$12,380.00-\$18,300.00.

LECTURER—UA3: 069,002.00-\$14,760.00.

Point at anity on the appropriate scale will be determined by qualications, selevant experience, research and publications. US\$1 = 052,551.

OS2,551.

Sanotite include housing allowance contributory pension and medical schaines. Anyone recruited from overseas will receive up to four full economy nit passause [i.e. for himself, wile and unmarried children up to elektron years of age] from point of recruitment, imited removel expenses and a satilling-in allowance. Applications three copient stating name date of birth, marital status, qualifications and eater obtained, with experience with dates, dates and addresses of these referees lone of the referees must be gour present or leaf employes where applicable), must reach the reference feeting. University of Glysma. P.O. Sos 841, Georgelown, Ouyana, South America, batter 21st Junes, 1817.

UNIVERSITY OF KONSTANZ

Applications are invited for the post of

LEKTOR FOR ENGLISH in the Sprachlehripstitut as from 1.10.1977.

Candidates should be native speakers of English and have a good command of German. They should have wide practical experience in the teaching of English as a foreign language and a special interest in the methodology of integrated teaching. They must be prepared to participate in team teaching. Interest in one or more of the following would be a further advantage: ESP, micro-teaching, the teaching of beginners and remedial students, the production of language materials. The academic requirements are E.F.L.

To maintain continuity, the successful opplicant should be prepared to remain in the post for several years. The salary cresponds to BAT 11a.

Applications with curriculum vitae, recent photograph and the usual credentials should he sent to: Sprachichrinstitut der Universität Konstanz, Postfach 7733, 0.7750 Konstanz within three weeks of the appearance of this advertisomers

Principal and the second of th

Administrative Secretary and Clerk of the Senate

the Senate made applications for the above post which senior administrative appointment within the Central Administration of this large federal University.

The Administrative Societary has responsibility, under the overall direction of the Principal, for the personnel, expenditure control and general services of the Control Offices which are located in Broomsbury, in addition to his dullas as secretary to the Senete. Applicants must be graduetes with extensive administrative exponence protection. terably within a University.

The post is within Grade IV of the National Salary Structure for University Administrative Staff. The qualifications and experience of the successful candidate would be expected to warrant a salary of not less than £10,000

Further particulors from the Principal (THES). University of London, Senate House, Malet Street, London WC1E 7HU (telephone 01-636 8000, extension 120). Letters of application, giving the nerves and addresses of three porsons to whom reference may be made, should reach him not leter their Mondey. June 20, 1977.

University of London

UNIVERSITY OF PAPUA NEW GUINEA

LECTURER IN BIOLOGY

CCOUNTY IN BIULUUS Closing date: 39 June 1977
Applications are invited from suitably qualified biologists with crosilve teaching and organized and contribute to the Protiminary and First Year Glology leaching programmes. Cendidates with research interests in any field of biology arey apply, but iscilled in second and ecology and matter biology one particularly good. Inforested particularly good, Inforested porgons on write to the Chairman, Biology Ospariment for further details.

LECTURER IN BIOLOGY

LECTURER IN BIOLOGY

12 POSITIONS

12 POSITIONS

13 POSITIONS

Closing dole; 18 July 1077

Applications are invitod for Two
positions from candideles with
a strong committee to Ingrevelve
teaching end with reacerch interests in the lields of
(1) relain pathology/microbiology
and (2) economic entendology/
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Selaty: Lecturer: K10.084 to

potein more information from the Chelman, Biology poparanseni. Selaty: Lecturor: K10,094 to K13,023 p.s. In accilion, en nilswance of K1,300 p.s. Il single is payeble, An oxirs K1,000 mnr. I/age allowance and K150 par ohid Child Allowance may also he peyable. £1 aterling equele K1,371. Applications should include detailed curriculum vitao, e receni small photograph end the namas ant eddressas of three talarees. Conditions include provision of housing, ennuel leave lates, study leave end F.S.B.U. supercrussion. Futher details and the conditions of appointment are evallable from the Sacralary, Cox 4820, University P.O. Papue New Quince, to whom opplications chould be addlessed. Application coldent in U.K. athould also send 1 copy of epplication in liter-University Council, 80/91 Toltenhem Court flood, London W1P OOT.

THE UNIVERSITY OF THE WEST INDIES .-

LECTURER/ASSISTANT

LECTURER IN MATHEMATICS

Salary sosies: Lecturer: 1977/78, TT\$16,071 to TT\$29,788 ps; Assistant Lecturer, 1977/78; TT\$18,480 to TT\$18,974 ps. [25] signifing equals TT\$4,121, FSSU.

Unfurnished ecommindation, it svaliable, at 10 per cent or furnished el 124 per cent of housing ellouance of 20 ps; cant of passionable salary. Up to five tuil sconomy passegas on appointment and on normal termination. Study and travel gerts.

Oelejied application heming three 13t referees to Secretary UW1, Si Augustne, Trinidad, so soon as possible. Octalia of posis sent in all opplicants.

HATIONAL UNIVERSITY HESEARCH SCHOOL OF PRYSICAL SCHOOLS ELECTRON AND TON OFFUSION UNIT

RESEARCH FELLOW

Appointment will be for three years in the first include with the possibility of extension to the years.
Closing clote: July 11, 1977.

RESEARCH SCHOOL OF BOCIAL SCIENCES OBPARTMENT OF BOCIOLOGY SENIOR RESEARCH

FACULTY OF ARTS
Another above, one housed from the appetitual professor for a production of the facility of Arts. The property of the facility of the FELLOW/RESEARCH FELLOW/POSTDOCTORAL FELLOW (Two Positione)

Solotly: \$4.32,752 per annum. Superiannuallen is based en an endowment assirrance achoine, the emiloyou and emiloyou contributing 5% and 10% tespectively. Information on application pro-cedure and further particulars may be obtained from the Aca-dendr Ergistrar, Monasii Uni-versity, Clayton, Victoria 3168, Avainalla, or the Secretary Gam-eral, Association of Common-weelth Universitias (Apple), 36 Gordon Square, Lendon WC1H Clif.

Applications should reach the Academia Registrar not loter than 22nd July 1877. The Council reserves the right to make no exponentment or to exposit by invitation at any class.

UNIVERSITY OF ZAMBIA

Applications are invited for the following post in the School of Applications is School of Applications in the school of Applications is seen to be seen t PROFESSOR/SENIOR LECTURER IN

SOIL SCIENCE In Department of Soll Science, Appliconfe stroud posacis en MSo or PhD (Soll Science) with edoqueto toeching and is-sarch exportence. Ates of opeciet interast include: Scheduling this grition and water requirements of crops. Ordinaco/Tropicos exportence is an advantagio. The application of the post of the

aomo crope under zambian condillons.
Salary eceles: PROFESSOR:
K0.232 to K6.616 pe; SEMIOR
LECTURER: K6.924 to K7.200
pe (£1 elerling equole K1.361.
The British Covernment may supplament assignt in range 22,976 to
£3.420 pa (alerling) for merried
appointso or £744 to £1,002 pa
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arguetty and normally free of all (supplemants are seedly-leviqued annually and normally free of all lex), and provide oblidance educations in illowances and holidance obligations in illowances and holidance in the seed of the seed

JAMES COOK UNIVERSITY LECTURER IN

A Vacance salas for a Lebturer (n Austrellen History in the Oaperlmann of History in the Oaperlmann of History and the salas o good honours degree and preferably a higher degree; they should poasase a sound knowledge of Austrellan history ganarilly with a special indexed in the colonial pariod. the coloriel partod.

Gelary lange \$A14,147 to \$18,888
per eanum.

Information on conditions of appointment and application procedure available from the Association of Commonwaeth Universities (Appointments), 38 October 18 June 1997.

Applications close June 30, 1977.

AUSTRALIAN HISTORY

Botany and other courses according to the questications and interests of the appointee and interests of the appointee and the news of the appointee and the news of the appointee will be expected in the specialist flaid.

Selary scale: Le3.638 tg Le8,248 p.a. (Cl. Bit o 23,122 p.a. sistling). (21 aterling equals Le2). The Brillish Government may explained expolates or 52,044 to 23,678 p.a. (sterling) for manied expolates or 52,044 to 23,678 p.a. (sterling) for an acceptance of the special service of the special service of the special service of the special service of all tax and explain reviewed annually and provide shiden's education allowences and holiday visit passages. P. G.B.U. various allowences; lemity passages; require overeean large. Osalied applications, 12 ceptes), inpluding a currious with the sent by alimal, not later then 30 June 1977 to the Scoretary, University, of Glerra Leone, Private Mell Bag, Freetown, Sterra Leone, Applicants resident in U.K. should etso cend 1 capy to inter-University, Council, 90,91 Tellentam Court Road, Lohdon, WTP OOT. Further paritousles may be obtained, from either societe.

SENIOR LIBRARIAN (SYSTEMS)

CEAKIN UNIVERSITY

Geetong

FELLOW

(TWO Positions)

Prelarence will be given to conclidates whose principal research interests lie within the itelas of social dilerentiation, stratistication and mobility, chies and the occiology of power, eithic minorities, er comparetive enquire since the modification and mobility, chies and the conclidation of control of the expected to covote most of the expected to covote most of their lines to research, spelicents should include an outline of their proposed research. The Department has some lunds for that include an outline of their proposed research functions are supported by the University Computer Confirs (University Computer Confirs) of the position of the position of the form of the position of the form of the position of the form of the position of the positio (SYSTEMS)

The University wishes to appoint a Senior Librarian who will be responsible to the Cher Librarien for jhe planning and ex-ordination of new and rox'sed systems, both menual and autonetod, in order to develope a fully integrated computer-based library system. Osekit University is situated in Geolong, approximately Bokins south wast of Malbourne, and hes absorbed most of the functions of the George of the Oeslong State 170scheta) College, including library collections of some 110,000 volumes. The University has opened on four sites with en antolement of approximately 2,300 students in 1677, (This is expected to increase to approximately 1,300 students in 1677, (This is expected to increase to approximately in 1677, (This is expected to increase to approximately

en antolement of opproximately 2,500 students in 1977. This is appacted to increase to approximately 4,500 including some 1,900 off-campus students in 1980. If is probable that a OECSYSTEM20 olso besed line-phaning ayalom with a 256K words internal memory will be included in the University's computer centre in 1978. The University is a member of OAYAL ICo-Operative Action by Victorian Academic Libratics) which is investigating the crastion of a co-operative action by Victorian Academic Chiratells which is investigating the crastion of a co-operative hard book of the crastion of a co-operative and approved qualifications in librarienship end/or computing with televant experience in the development and implementation of automated library ayatems. The settery range for the position is \$A19,093-\$422,308 per onner.

Prospective applicants should contact the Association of Commonwshith Universities IAP pointments, 38 Gordon Square, London WC1H OPF, for luriher patticulars balots applying.

tion is \$A19,093-\$A22,309 per connum.

Applications including a curriculum vince and the memos and addresses of inter relorant the control of **FLINDERS UNIVERSITY** OF SOUTH AUSTRALIA School of Social

Sciences Lecturer/ Senior Lecturer UNIVERSITY OF SIERRA LEONE FOURAH BAY COLLEGE

LECTURESHIP in

BOTANY

Applicants about have a good honours degree and posigneduate experience. The appointment will be made in the field of Plant Merphopaneels or Plant Analomy. The appointee, will be expected to seeme dulies in September. 1877, of as acon as possible theretian Tosoning dulies will include participation in distinct any pourses in Blology and

in Social Administration ment to the sove-monitoned position.
Candidates should have swileble academic qualifications and experience in the provision of source welfare, services for enable times to teach said, educate, research in the first year, bridants research in social Administration and to share responsibility for higher degree midents. Appointment to the Senior Lactureship will assume additionally substantial

degree missenie. Appointment to the Senior Loctureship will assume additionally substantial capacity to contribute to the menagement of the disopline. The Social Administration programme emphasizes generale training in the first year of the coered with opportunities in the second year for specialization in the delivery of services, masses ment of welfare frogrammes and ecolal policy and planning. Preference will be given to candidates with skills in shown and and opportunities to the seneral entrement of welfare given to candidates with skills in shown and and opportunities to the seneral entrement of the seneral entrement of the seneral entrement of the second year. Select Scales I Lecture \$414,417-\$414,465; Saylor Lectures \$419,695-422,307. Supername-tien is on the F.S.S.U. bests. Further information shout the position, including conditions of application, my be obtained from the Association of Continuous and the second year. Select Scales I Lecture \$419,13,36 Gordee Gouare, London WCIH OPF. Applications and detella sculptomenwesti Universities (Applia),36 Gordee Gouare, London WCIH OPF. Applications conditions of Registrar, The Filindere University of South Australie, South De June, 1977.

Universities continued

DURHAM

LEGIDRESHIP IN CLASSICS

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LIVERPOOL

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Paychology, The initial solary will be within his range £3,333 to £4,631 per senior of £6,643 per senior to £6,643

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LONDON

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MANCHESTER .

THE UNIVERSITY

OF CHRISTIAN THOUGHT

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Banks on the first parties of the same and t UNIVERSITY OF

LAMCASTER DEPARTMENT OF EDUCATIONAL RELIGARCH NEBEARON BLO GRAMUATES" AT ITTUDES

TO INDUSTRY Two RESEARCH OFFICERS are tequired to assist Or G. Brown with un tuvostication of graduate ing conducted under the suspicur of the Royantoe Llamorial Trust The appointments will be for Iwa yours. Commencing not later than August 1977. The poste in England to England in England.

In England.

Applications are invited from good honours gradestes, preletably with same keevindge of methods is the occial coloncos. Opportunities to neglater for higher degrace will be full paradits. Saisales will be in the range C2,904 to C3.118 per annex. C3.118 par anguar

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THE UNIVERSITY OF THE WEST INDIES-TRINIDAD

Applications gro invited for the post of RESEARCH FELLOW JUNIOR RESEARCH FELLOW IN SEISMOLOGY

Applisanie should hove e dogre: In Daophysics, Civil Esgingaring Physics or Oscilogy and resonre oxportes or Oscilos physics.
Salary scaloo: Nosaarch Fellow 1977/76: TT\$19.071 to TT\$29.789
D.A. Junior Rosaarch Fellow 1977/78: TT\$15,480 to TT\$19.674
D.A. (21 sterling equals TT\$4.12).
F.S.B.U.

F.S.S.U.
Universished eccontracted on if ovalishes if par conf or juccelleted of 121 per conf or juccelleted of 121 per conf or housing efformance of 20 per conf or percept of passages on appointment and on normal termination. Study and Travel Grant.
Datalleted application naming three (3) rescrees to Secretary, U.W.I., St. Augustine, Trinided, es good as possible. Ontatio of posid sent to ski

> HORUGAITY OF EDINGUROH and Hutars Resources s e result of the resignation of Mr. J. D. Lockie, applications are wiled for the post of

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1743

LECTURER In Animal Ecology or Wildlife Management

Applicants should have a background in Animal Ecology and
some experience is the massesment of Wildlife or Resga
Menagement of domesticetsd
enimelo. The successful applicent will become a member of
a Department covering a wide
tange of lopics is Ecological
Science and the management of
renewable natural resources and
will be expected to co-operate is
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tources see wall as in the above
arens. The successful applicant
will also be expected to purese
and promote research on relevant
problems. If to intended to fill
the position on or before to
October, 1977.
Selery scale £3,333 to £8,665 per
annum.
Applications (three copies) fogetter with the names of two
relevant with the names of two
relevants of the names of two
relevant referes should be sent not tale; hen Sth July 1977, a the Sabre-lery to the University, Oid Col-lege, Bouth Bridge, Edinburgh EHO SYL, from whom father per-ticulars may be obtained. Please quote reference 1019.

ABBRYSTWYTH COLEO PRICYBOOL CYMRU THE UNIVERSITY COLLEGE AGRICULTURAL AND BOTANY

And the second s NEW SOUTH WALES

THE UNIVERSITY OF

THE WEST INDICS-

THURSDAN

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RESPARCH FOLLOW

JELIOR RESEARCH

FRILOW IN

SOCIAL AND

ECONOMIC RESEARCH

Applicants should no qualified in one of the Social Sectors to totaled holds.

Salery scales: Research Follow: 19:7/8: TT319,071 to TTS39-799 p.m. Junior Research Follow: 19:7/8: TT315,1480 to TTS16,974 p.e. (21 starting equals TTS4,12]. F.s.s.u.

Usiumished accommodation if available in 10 per cent or furelahed of 121 per cent or housing allowance of 20 per cent of panelonable along the total unit section plantage of the appointment med on normal for appointment study and travel format.

approximent and on normal for-colonition Study and Trevel Grass, Delailed upplication naming three (3) release to Sacralary, U.W.I. St. Augustine, Trinded, as soon as passible. Delails of posts cent to all appli-cents.

OF DUBLIN

Trinity College

LECTURER IN

SPANISH

Applications are layled for the above post. The successful caseldete will be expected to teach Spanish-Assortess Ulareture, but opplicable seedy to do so whose exected interest to not in that area, will be considered.

Salary Scale: £3,616-£7,324.

it is saticipated that appoint-ment will be made in the range

LECTURESHIP IN

PREVENTIVE DENTISTRY

Appointee will be required to carry and leaching and research duller in the field of Child Dental frouth in the Deporture of Preventive Bentlery.

Preventive Deality, we higher degree to some expect of Psyventive Deality and a cilciest background in Federatics in general endior specialized deutal practice. Some experiences in dental civicoliblogy and cilciest referred behalques particularly is the evolusion of dental caries control measures essential as well as previous totelias experience, The position and the first manner with the possibility of permanent but may be filled for three years in the first manner with the possibility of permanent particularly and cares return fares.

Salary range:—

SA14,147 to SA18,686 pe

SA14,147 to SA18,686 pe
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30, 1977, to the Register, University of Sydney, NSW 2006,
Australia, Irom whom further information realistic information
site available from Association
of Commonwealth Universities
(Appointments), J6 (Jordon
Square, London WCIII 0PF.

BATH

RESBARCH ASSISTANT

A BESEARCH ASSISTANT IS PROBLEMENT ASSISTANT IS PROBLEMENT ASSISTANT IS PROBLEMENT ASSISTANT IS PROBLEMENT ASSISTANT IN THE PROBLEMENT ASSISTANT A

The appointment is for tip to two years from 144 October 1577 and is supported by the 1577 and is supported by the 1577 and is supported by the 1577 and 157

Shary in the renes 22 bose of 55,553 according to guali-fications and experience.

Application from and further particulates are obtainable from the Petronnel Observing Down-skip of Deth. Clavering Down-pain, guoting reserved number, 77,47 THES. Coming day will be Friday, 24h June,

THE UNIVERSITY

£3,616-£4,021.

LECTURER SCHOOL OF MATHEMATICS

Applications are institled for a tecture-stay in the Department of Thorotolical and Applical Meetings should have high a obtaine about him being a obtaine application in the institute of a total one of the helps of softly machines in the high machines, and host one of the helps of softly machines, high machines, despitying, observable and bedony, 1978.

Forther available from Foliment, 1978.

UNIVERSITY OF

Syrinoy, Augitalia

Applications close 18 July 1977.
Details of appointment and application forms can be obtained from the Association of Commonwealth Universities (Apple.), 36 Octobs Squere. London WCIII.



RESEARCH FELLOW

Adaptive Antennas

Applications are invited for the above post is the Department of Etectronic and Electrical Engineering. The study is a systhogic of coscepts input such diverse fields as eighted processing, optimisation, linear and sometiment, obstaventoble and costrol theory, probability, stellatics, and wave proposalion. The post is lonable for two years in the first lasinnes. Salety within soalo £3,33-£5,627. Persons who teel thoy might have a suiticioni background can obtain turi hor details from Paul Johnson. Establishment Officer, rol: 77/16EL.

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Closing date for receipt of applica-lions is Monday, 20th Junes, 1977. UNIVERSITY OF ST ANDREWS Department of Astronomy UNIVERSITY of SYDNEY Applications are nivited for a

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Colleges and Institutes of Technology

BOLTON INSTITUTE OF TECHNOLOGY HEAD OF DEPARTMENT OF MATHEMATICS GRADE IV

Applications are invited for the post of Heed of the Department of Mathematics. The Department is responsible for the teaching of mathematics throughout the insidente in addition to like organization and development of its own courses, Stage 1 of a CNAA part-time degree to Mathematics will be offered in the coming session:

CNAA part-time degree to Mathematics will be critical in the conding station:
Salary 27,085-27,944 (plus £136 supplement)
The post is available from 1st September.
Surther particulars and application forms available from 0 bet Principal Bolton Institute of Technology Denne Rosd, Bolton, Bi3 SAN, to whom completed forms should be returned not later than Thursday, 30th June, 1977.

HAMPSHIRE :

FARNBOROUGH COLLEGE OF TECHNOLOGY Department of Electrical Engineering and Mainematics Rel. 77/13H

Principal Lecturer in Electrical Engineering (light current) s second in charge of this new Department. Good degree, list and teaching experience required,

Firther particulars may be obtained from the Principal, Fernborough College of Technology, Soundary Road, Farnborough, Hanta QUI-4-88B, Closing date; 15th June, 1877.

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DUNDEE COLLEGE OF TECHNOLOGY Resulting from the ratifal of the present incumbent applications era invited for the post of

HEAD OF DEPARTMENT OF ELECTRICAL & ELECTRONIC ENGINEERING

The collega is a Scotlish central Institution with a aubsignifier and growing rongs of dagrae and diploma courses. The department of electrical & electronic angineering provides courses leading to honours and unclassified degraes end to the higher national certificate, together degrass and to the higher national certificate, together with various apecialist abort courses. The person appointed mey be ellipible for a professorship and applicants about have appropriate academic qualiticationa, experience of toaching at degree level and relevant industrial and/or research experience, logaliter with o proven record of administrative ability. The salary is \$8,910 followed to the control industrial and/or research industrial and/ (al presont under raviaw).

the Principal, Dundes Control form obtainable from Dundas, DD1 1HQ, to whom completed application to the should be returned by 17 June, 1977.

HSREFORO & WORCESTSR WORCESTER TECHNICAL sperimes! of Susisses Studie LECTURER GRADE II

ACCOUNTANCY Applications are invited for the post of Lecturer Orade II to commonee dulles on Beptember 1, 1977. Candidates should have a relovent dagroe or professional qualification, and should be be to teach up to Higher National Certificate and Final Professional Levels. Troiseacona; Levels.

The ability is essist on Cipiome
in Menagament Studies and alter
Managament Courses would be
as advantage.

Experience in business and in
leaching is proforred.

selary, 23,744 to £5,985 (Is-aluding supplament).

The closing date for applica-lions will be 10 days after the apposence of this advertise-ment.

mant.
Application forms ead further
details may be obtained from
the Chief Admissituative Ottiaer, Worcesiet Technical Collags, Ossesway, Worcester WR1

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LECTURER (A) IN SECRETAINAL STUDIES

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Applicants for the above posts should porcess Oegree/ itenours. Argree oed or ognivations, inclusival research or teaching experience desiration.

Further particulars and appli-ACADEMIC HERITAR, Nanior College of Evaluation and Tocknowy, Golfnion Hoad, Ediaburgh Ellio SDT.

Administration

CHESTER COLLEGE

BURSAR AND CLERK TO THE GOVERNING BODY

Applications are invited from suitably qualified men and women for the nost of BURSAR and CLERK TO THE GOVERNING BODY to take up duty on ist January, 1978. Chester College is a Voluntary (Church of England) College of Higher Education, within Croup 6. Students are prepared for the BEd. and B.A. degrees of Liverpool University, as well as fur various Olydomus and Certificates.

will be within the range £5,889 to £7,407, plus £312 supple

Further particulars may be obtained from the Principal, Chester College, Cheyrey Ruad, Chester Cill 4BJ, to whom applications should be retarned not later than 18th June, 1977.

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COLLEGE HALL The university proposes to hit. as soon as possible, the BURBAR OF COLLEGE HALL The post is open to suitably qualified map and women condidates and will become vacani from deptember 1. 1977.

Candidates for the construction and considerable oxposes suitable qualifications and considerable oxposition, preferably is the conduct of a University Hall of Residence.

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Selary is on the scale £3,142
by £204 to £4,610, plus £450
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9000, sex, 16, University of
London, Sendia House, Wc311
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Many's College, Strewberry M.

Twickenham, TW1 48X. Telephone.

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Further dolaits from the Principal & whom applications should be sent with

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1. ASSISTANT

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2. LECTURER IN

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4. LECTURER IN

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The post is for 2 years is the first instance with a passibility of an extension of one year. Conditates must be aged at least 25, should irold a Teaching Certificeto and should prelatebly have recent experience of teaching 11 to 16 year old children. Seleny lange 14700 to £5800, starting seleny will depend on age, qualifications and experience, plus £455. Landon Waighting and a 1978 pay supplement of £313.20. A 1977 pay supplement of £313.20. A 1977

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Salary in accordance with humban. Further Liducations in profit of an incremental scale within, the page 22,469 to 4,477 plus Londes Allowage of £402, supplement of £412 than littler supplement of £412 than littler supplements in priest desadont upon \$6, calification and experience). Further details and applica-tion farms returnable by Jusu 17, 1977 obtainable train the Scaler Administrative Officer of the Institute.

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All applicants must apply to The Registrer, James Cook Usiversity of Morthr Queensiand, Townsville, Ousensiand 4811 from whom further information may be obtained Australias Gradustas are sligible for Commonwabilih Pesigraduste Course and Research Awards.

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